

GREENBRIER COMPANIES INC
Form 10-K
October 25, 2016
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549-1004

FORM 10-K

x ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d)

OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended August 31, 2016

or

Transition Report Pursuant to Section 13 or 15(d)

of the Securities Exchange Act of 1934

for the transition period from _____ to _____

Commission File No. 1-13146

THE GREENBRIER COMPANIES, INC.

(Exact name of Registrant as specified in its charter)

Oregon **93-0816972**
(State of Incorporation) (I.R.S. Employer Identification No.)
One Centerpointe Drive, Suite 200, Lake Oswego, OR 97035

(Address of principal executive offices)

(503) 684-7000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

(Title of Each Class) (Name of Each Exchange on Which Registered)
Common Stock without par value **New York Stock Exchange**

Securities registered pursuant to Section 12(g) of the Act:

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15 (d) of the Act. Yes No

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Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of Registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definition of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act. (Check one)

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

Aggregate market value of the Registrant's Common Stock held by non-affiliates as of February 29, 2016 (based on the closing price of such shares on such date) was \$684,081,392.

The number of shares outstanding of the Registrant's Common Stock on October 19, 2016 was 28,363,846 without par value.

DOCUMENTS INCORPORATED BY REFERENCE

Certain portions of the Registrant's definitive Proxy Statement prepared in connection with the Annual Meeting of Stockholders to be held on January 6, 2017 are incorporated by reference into Parts II and III of this Report.

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Forward-Looking Statements

From time to time, The Greenbrier Companies, Inc. and its subsidiaries (Greenbrier or the Company) or their representatives have made or may make forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including, without limitation, statements as to expectations, beliefs and strategies regarding the future. Such forward-looking statements may be included in, but not limited to, press releases, oral statements made with the approval of an authorized executive officer or in various filings made by us with the Securities and Exchange Commission, including this filing on Form 10-K and in the Company's President's letter to stockholders that is typically distributed to the stockholders in conjunction with this Form 10-K and the Company's Proxy Statement. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. These forward-looking statements rely on a number of assumptions concerning future events and include statements relating to:

- availability of financing sources and borrowing base for working capital, other business development activities, capital spending and leased railcars for syndication (sale of railcars with lease attached);
- ability to renew, maintain or obtain sufficient credit facilities and financial guarantees on acceptable terms;
- ability to utilize beneficial tax strategies;
- ability to grow our businesses;
- ability to obtain lease and sales contracts which provide adequate protection against attempted modifications or cancellations, changes in interest rates and increased costs of materials and components;
- ability to obtain adequate insurance coverage at acceptable rates;
- ability to convert backlog of railcar orders and obtain and execute lease syndication commitments;
- ability to obtain adequate certification and licensing of products; and
- short-term and long-term revenue and earnings effects of the above items.

The following factors, among others, could cause actual results or outcomes to differ materially from the forward-looking statements:

- fluctuations in demand for newly manufactured railcars or marine barges;
- fluctuations in demand for wheels, repair services and parts;
- delays in receipt of orders, risks that contracts may be canceled or modified during their term, not renewed, unenforceable or breached by the customer and that customers may not purchase the amount of products or services under the contracts as anticipated;
- ability to maintain sufficient availability of credit facilities and to maintain compliance with or to obtain appropriate amendments to covenants under various credit agreements;
- domestic and global economic conditions including such matters as embargoes or quotas;
- global political or security conditions in the U.S., Europe, Latin America, the Gulf Cooperation Council (GCC) and other areas including such matters as terrorism, war, civil disruption and crime;
- sovereign risk related to international governments that includes, but is not limited to, governments stopping payments, repudiating their contracts, nationalizing private businesses and assets or altering foreign exchange regulations;
- growth or reduction in the surface transportation industry;
- ability to maintain good relationships with our labor force, third party labor providers and collective bargaining units representing our direct and indirect labor force;
- ability to maintain good relationships with our customers and suppliers;
- ability to renew or replace expiring customer contracts on satisfactory terms;
- ability to obtain and execute suitable lease contracts for leased railcars for syndication;
- steel and specialty component price fluctuations and availability, scrap surcharges, steel scrap prices and other commodity price fluctuations and availability and their impact on product demand and margin;
- delay or failure of acquired businesses or joint ventures, assets, start-up operations, or new products or services to compete successfully;
- changes in product mix and the mix of revenue levels among reporting segments;
- labor disputes, energy shortages or operating difficulties that might disrupt operations or the flow of cargo;
- production difficulties and product delivery delays as a result of, among other matters, costs or inefficiencies associated with expansion, start-up, or changing of production lines or changes in production rates,

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equipment failures, changing technologies, transfer of production between facilities or non-performance of alliance partners, subcontractors or suppliers;

lower than anticipated lease renewal rates, earnings on utilization based leases or residual values for leased equipment;

discovery of defects in railcars or services resulting in increased warranty costs or litigation;

physical damage, business interruption or product or service liability claims that exceed our insurance coverage;

commencement of and ultimate resolution or outcome of pending or future litigation and investigations;

natural disasters or severe or unusual weather patterns that may affect either us, our suppliers or our customers;

loss of business from, or a decline in the financial condition of, any of the principal customers that represent a significant portion of our total revenues;

competitive factors, including introduction of competitive products, new entrants into certain of our markets, price pressures, limited customer base, and competitiveness of our manufacturing facilities and products;

industry overcapacity and our manufacturing capacity utilization;

decreases or write-downs in carrying value of inventory, goodwill, intangibles or other assets due to impairment;

severance or other costs or charges associated with lay-offs, shutdowns, or reducing the size and scope of operations;

changes in future maintenance or warranty requirements;

ability to adjust to the cyclical nature of the industries in which we operate;

changes in interest rates and financial impacts from interest rates;

ability and cost to maintain and renew operating permits;

actions or failures to act by various regulatory agencies including changing tank car or other rail car regulations;

potential environmental remediation obligations;

changes in commodity prices, including oil and gas;

risks associated with our intellectual property rights or those of third parties, including infringement, maintenance, protection, validity, enforcement and continued use of such rights;

expansion of warranty and product support terms beyond those which have traditionally prevailed in the rail supply industry;

availability of a trained work force at a reasonable cost and with reasonable terms of employment;

availability and/or price of essential raw materials, specialties or components, including steel castings, to permit manufacture of units on order;

failure to successfully integrate joint ventures or acquired businesses;

discovery of previously unknown liabilities associated with acquired businesses;

failure of or delay in implementing and using new software or other technologies;

the impact of cybersecurity risks and the costs of mitigating and responding to a data security breach;

ability to replace maturing lease and management services revenue and earnings with revenue and earnings from new commercial transactions, including new railcar leases, additions to the lease fleet and new management services contracts;

credit limitations upon our ability to maintain effective hedging programs;

financial impacts from currency fluctuations and currency hedging activities in our worldwide operations;

increased costs or other impacts due to changes in legislation, regulations or accounting pronouncements; and

fraud, misconduct by employees and potential exposure to liabilities under the Foreign Corrupt Practices Act and other anti-corruption laws and regulations.

Any forward-looking statements should be considered in light of these factors. Words such as anticipates, believes, forecast, potential, g contemplates, expects, intends, plans, projects, hopes, seeks, estimates, could, would, will, may, can, designed to, expressions identify forward-looking statements. These forward-looking statements are not guarantees of future performance and are subject to risks and uncertainties that could cause actual results to differ materially from the results contemplated by the forward-looking statements. Many of the important factors that will determine these results and values are beyond our ability to control or predict. You are cautioned not to put undue reliance on any forward-looking statements. Except as otherwise required by law, we do not assume any obligation to update any forward-looking statements.

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In assessing forward-looking statements contained herein, readers are urged to read carefully all cautionary statements contained in this Form 10-K, including, without limitation, those contained under the heading, Risk Factors, contained in Part I, Item 1A of this Form 10-K.

All references to years refer to the fiscal years ended August 31st unless otherwise noted.

The Greenbrier Companies is a registered trademark of The Greenbrier Companies, Inc. Gunderson, Maxi-Stack, Auto-Max and YSD are registered trademarks of Gunderson LLC.

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PART I

Item 1. BUSINESS

Introduction

We are one of the leading designers, manufacturers and marketers of railroad freight car equipment in North America and Europe. We manufacture railcars in Brazil through a strategic investment and are a manufacturer and marketer of marine barges in North America. Recently through our European manufacturing operations, we also began delivery of railcars for the Saudi Arabian market. We are a leading provider of wheel services, parts, leasing and other services to the railroad and related transportation industries in North America and a provider of railcar repair, refurbishment and retrofitting services in North America through a joint venture partnership. Through unconsolidated joint ventures we also produce rail castings, tank heads and other components.

We operate an integrated business model in North America that combines freight car manufacturing, wheel services, repair, refurbishment, retrofitting, component parts, leasing and fleet management services. Our model is designed to provide customers with a comprehensive set of freight car solutions utilizing our substantial engineering, mechanical and technical capabilities as well as our experienced commercial personnel. This model allows us to develop cross-selling opportunities and synergies among our various business segments and to enhance our margins. We believe our integrated model is difficult to duplicate and provides greater value for our customers.

We operate in four reportable segments: Manufacturing; Wheels & Parts; Leasing & Services; and GBW Joint Venture. Financial information about our business segments as well as geographic information is located in Note 19 Segment Information to our Consolidated Financial Statements.

The Greenbrier Companies, Inc., which was incorporated in Delaware in 1981, consummated a merger on February 28, 2006 with its affiliate, Greenbrier Oregon, Inc., an Oregon corporation, for the sole purpose of changing its state of incorporation from Delaware to Oregon. Greenbrier Oregon survived the merger and assumed the name, The Greenbrier Companies, Inc. Our principal executive offices are located at One Centerpointe Drive, Suite 200, Lake Oswego, Oregon 97035, our telephone number is (503) 684-7000 and our Internet website is located at <http://www.gbrx.com>.

Products and Services

Manufacturing

North American Railcar Manufacturing - We manufacture a broad array of railcar types in North America, which includes most railcar types other than coal cars. We have demonstrated an ability to capture high market shares in many of the car types we produce. The primary products we produce for the North American market are:

Intermodal Railcars We manufacture a comprehensive range of intermodal railcars. Our most important intermodal product is our articulated double-stack railcar. The double-stack railcar is designed to transport containers stacked two-high on a single platform and provides significant operating and capital savings over other types of intermodal railcars.

Tank Cars We produce a variety of tank cars, including both general and certain pressurized tank cars, which are designed for the transportation of products such as crude oil, ethanol, liquefied petroleum gas, caustic soda, urea ammonium nitrate, vegetable oils, bio-diesel and various other products and we continue to expand our product lines.

Automotive We manufacture a full line of railcar equipment specifically designed for the transportation of automotive products. Our automotive offerings include our proprietary Auto-Max railcar, Multi-Max auto rack and flat cars for automotive transportation.

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Conventional Railcars - We produce a wide range of boxcars, which are used in the transport of forest products, perishables, general merchandise and commodities. We also produce a variety of covered hopper cars for the grain, fertilizer, sand, cement and petrochemical industries as well as gondolas for the steel, metals and aggregate markets and various other conventional railcar types. Our flat car products include center partition cars for the forest products industry, bulkhead flat cars and solid waste service flat cars.

European Railcar Manufacturing - Our European manufacturing operation produces a variety of tank, automotive and conventional freight railcar (wagon) types, including a comprehensive line of pressurized tank cars for liquid petroleum gas and ammonia and non-pressurized tank cars for light oil, chemicals and other products. In addition, we produce flat cars, coil cars for the steel and metals market, coal cars, gondolas, sliding wall cars and automobile transporter cars for both the continental European and United Kingdom markets. In 2016, we began production of tank cars to support industrial mining operations for the Saudi Arabian market for delivery beginning in 2017.

Marine Vessel Fabrication - Our Portland, Oregon manufacturing facility, located on a deep-water port on the Willamette River, includes marine vessel fabrication capabilities. The marine facilities also increase utilization of steel plate burning and fabrication capacity providing flexibility for railcar production. United States (U.S.) coastwise law, commonly referred to as the Jones Act, requires all commercial vessels transporting merchandise between ports in the U.S. to be built, owned, operated and manned by U.S. citizens and to be registered under the U.S. flag. We manufacture a broad range of Jones Act ocean-going and river barges for transporting merchandise between ports within the U.S. including conventional deck barges, double-hull tank barges, railcar/deck barges, barges for aggregates and other heavy industrial products and dump barges. Our primary focus is on the larger ocean-going vessels although the facility has the capability to compete in other marine-related products.

Wheels & Parts

Wheel Services and Component Parts Manufacturing - We operate a large wheel services and component parts network in North America. Our wheel shops, operating in ten locations, provide complete wheel services including reconditioning of wheels and axles in addition to new axle machining and finishing and axle downsizing. Our component parts facilities, operating in four locations, recondition and manufacture railcar cushioning units, couplers, yokes, side frames, bolsters and various other parts. We also produce roofs, doors and associated parts for boxcars.

GBW Joint Venture

Railcar Repair, Refurbishment, Maintenance and Retrofitting - GBW Railcar Services LLC (GBW), an unconsolidated 50/50 joint venture, became our fourth reportable segment (GBW Joint Venture) upon formation in July 2014. The results of GBW are included as part of Earnings (loss) from unconsolidated affiliates as we account for our interest in GBW under the equity method of accounting. GBW operates the largest independent railcar repair shop network in North America consisting of over 30 Repair shops including more than 10 tank car repair shops certified by the Association of American Railroads (AAR). This network of Repair shops performs heavy railcar repair and refurbishment, as well as routine railcar maintenance for third parties, as well as for our leased and managed fleet.

Leasing & Services

Leasing - Our relationships with financial institutions, combined with our ownership of a lease fleet of approximately 8,900 railcars (6,600 railcars held as equipment on operating leases, 2,200 held as leased railcars for syndication and 100 held as finished goods inventory), enables us to offer flexible financing programs including operating leases and by the mile leases to our customers. In addition, we frequently originate leases of railcars, which are either newly built or refurbished by us, or buy railcars from the secondary market, and sell the railcars and attached leases to financial institutions and subsequently provide such institutions with management services under multi-year agreements. As an equipment owner and an originator of leases, we participate principally in the operating lease segment of the market. The majority of our leases are full service leases whereby we are responsible for maintenance and administration. Maintenance of the fleet is provided, in

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part, through GBW. Assets from our owned lease fleet are periodically sold to take advantage of market conditions, manage risk and maintain liquidity.

Management Services - Our management services business offers a broad array of software and services that include railcar maintenance management, railcar accounting services (such as billing and revenue collection, car hire receivable and payable administration), total fleet management (including railcar tracking using proprietary software), administration and railcar remarketing. We currently own or provide management services for a fleet of approximately 273,000 railcars for railroads, shippers, carriers, institutional investors and other leasing and transportation companies in North America. In 2017, we formed our Regulatory Services Group which offers regulatory, engineering, process consulting and advocacy support to the tank car and petrochemical rail shipper community, among other services.

| | Fleet Profile ⁽¹⁾ | | |
|-------------------------------|-------------------------------------|----------------|----------------|
| | As of August 31, 2016 | | |
| | Owned | Managed | Total |
| | Units <small>(2)</small> | Units | Units |
| Customer Profile: | | | |
| Leasing Companies | 68 | 113,736 | 113,804 |
| Class I Railroads | 1,922 | 97,311 | 99,233 |
| Shipping Companies | 4,645 | 39,136 | 43,781 |
| Non-Class I Railroads | 915 | 13,981 | 14,896 |
| En route to Customer Location | 426 | 2 | 428 |
| Off-lease | 973 | | 973 |
| Total Units | 8,949 | 264,166 | 273,115 |

⁽¹⁾ Each platform of a railcar is treated as a separate unit.

⁽²⁾ The percentage of owned units on lease excluding newly manufactured railcars not yet on lease and a recent railcar portfolio acquisition was 91.0% at August 31, 2016 with an average remaining lease term of 2.5 years. The average age of owned units is 13 years.

Backlog

Subsequent to August 31, 2016, we reached agreements to restructure certain railcar contracts for favorable financial and other considerations resulting in a reduction of approximately 1,200 units. The adjustment is reflected as of August 31, 2016. The following table depicts our reported third party railcar backlog in number of railcars and estimated future revenue value attributable to such backlog, at the dates shown:

| | August 31, | | |
|---|-------------------|-------------|-------------|
| | 2016 | 2015 | 2014 |
| New railcar backlog units ⁽¹⁾ | 27,500 | 41,300 | 31,500 |
| Estimated future revenue value (in millions) ⁽²⁾ | \$ 3,190 | \$ 4,710 | \$ 3,330 |

⁽¹⁾ Each platform of a railcar is treated as a separate unit.

⁽²⁾ Subject to change based on finalization of product mix.

Our total manufacturing backlog of railcar units as of August 31, 2016 included 23,500 units for direct sales, 3,700 units intended for syndications to third parties with a lease attached and 300 units intended to be placed into our owned lease fleet.

Based on current production schedules, approximately 12,000 units in the August 31, 2016 backlog are scheduled for delivery in 2017. The balance of the production is scheduled for delivery in 2018 and beyond. Multi-year supply agreements are a part of rail industry practice. A portion of the orders included in backlog reflects an assumed product mix. Under terms of the orders, the exact mix will be determined in the future, which may impact the dollar amount of backlog. Marine backlog as of August 31, 2016 was \$114 million compared to \$52 million as of August 31, 2015.

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Our backlog of railcar units and marine vessels is not necessarily indicative of future results of operations. Certain orders in backlog are subject to customary documentation and completion of terms. Customer orders

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contain terms and conditions customary in the industry. Customers may attempt to cancel or modify orders in backlog. Historically, little variation has been experienced between the quantity ordered and the quantity actually delivered, though the timing of deliveries has been modified from time to time. Backlog as of August 31, 2016 includes an aggregate of 3,800 covered hopper railcars for use in energy related sand transportation; customers may seek to cancel, settle or modify a portion of these railcars. We cannot guarantee that our reported railcar backlog will convert to revenue in any particular period, if at all.

Customers

Our customers include railroads, leasing companies, financial institutions, shippers, carriers and transportation companies. We have strong, long-term relationships with many of our customers. We believe that our customers' preference for high quality products, our technological leadership in developing innovative products and competitive pricing of our railcars have helped us maintain our long-standing relationships with our customers.

In 2016, revenue from two customers, TTX Company (TTX) and CIT Group Inc. (CIT), accounted for approximately 31% of total revenue, 38% of Manufacturing revenue and 14% of Wheels & Parts revenue. No other customers accounted for greater than 10% of total revenue.

Raw Materials and Components

Our products require a supply of materials including steel and specialty components such as brakes, wheels and axles. Specialty components purchased from third parties represent a significant amount of the cost of most freight cars. Our customers often specify particular components and suppliers of such components. Although the number of alternative suppliers of certain specialty components has declined in recent years, there are at least two suppliers for these components.

Certain materials and components are periodically in short supply which could potentially impact production at our new railcar and refurbishment facilities. In an effort to mitigate shortages and reduce supply chain costs, we have entered into strategic alliances and multi-year arrangements for the global sourcing of certain materials and components, we operate a replacement parts business and we continue to pursue strategic opportunities to protect and enhance our supply chain. We periodically make advance purchases to avoid possible shortages of material due to capacity limitations of component suppliers, shipping and transportation delays and possible price increases.

In 2016, the top ten suppliers for all inventory purchases accounted for approximately 46% of total purchases. Amsted Rail Company, Inc. accounted for 21% of total inventory purchases in 2016. No other suppliers accounted for more than 10% of total inventory purchases. The Company believes it maintains good relationships with its suppliers.

Competition

There are currently six major railcar manufacturers competing in North America. In addition, a number of small manufacturers have recently entered the market. We believe that in Europe we are in the top tier of railcar manufacturers. European freight car manufacturers are largely located in central and eastern Europe where labor rates are lower and work rules are more flexible. In all railcar markets, we compete on the basis of quality, price, reliability of delivery, product design and innovation, reputation and customer service and support.

Competition in the marine industry is dependent on the type of product produced. There are two principal competitors that build product types similar to ours. We compete on the basis of experienced labor, launch ways capacity, quality, price and reliability of delivery.

Competition in the wheels & parts and repair businesses is dependent on the type of product or service provided. There are many competitors in the railcar repair and refurbishment business and an increasing number of competitors in the wheel services and other parts businesses. We compete primarily on the basis of quality, timeliness of delivery, customer service, location of shops, price and engineering expertise.

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There are at least twenty institutions that provide railcar leasing and services similar to ours. Many of them are also customers that buy new railcars from our manufacturing facilities and used railcars from our lease fleet, as well as utilize our management services. Many of these institutions have greater resources than we do on our own balance sheet. We compete primarily on the basis of quality, price, delivery, reputation, service offerings and deal structuring and syndication ability. We believe our strong servicing capability and our ability to sell railcars with a lease attached (syndicate railcars), integrated with our manufacturing, repair shops, railcar specialization and expertise in particular lease structures provide a strong competitive position.

Marketing and Product Development

In North America, we use an integrated marketing and sales effort to coordinate relationships in our various segments. We provide our customers with a diverse range of equipment and financing alternatives designed to satisfy each customer's unique needs, whether the customer is buying new equipment, refurbishing existing equipment or seeking to outsource the maintenance or management of equipment. These custom programs may involve a combination of railcar products, leasing, refurbishing and remarketing services. In addition, we provide customized maintenance management, equipment management, accounting and compliance services and proprietary software solutions.

Outside of North America, we maintain relationships with customers through country-specific sales personnel. Our engineering and technical staff works closely with their customer counterparts on the design and certification of railcars. Many European railroads are state-owned and are subject to European Union (EU) regulations covering the tender of government contracts.

Through our customer relationships, insights are derived into the potential need for new products and services. Marketing and engineering personnel collaborate to evaluate opportunities and develop new products and features. For example, we continue to expand our tank car and covered hopper product offerings in North America. Research and development costs incurred during the years ended August 31, 2016, 2015 and 2014 were \$2.7 million, \$2.5 million and \$3.6 million.

Patents and Trademarks

We have a number of U.S. and non-U.S. patents of varying duration, and pending patent applications, registered trademarks, copyrights and trade names that are important to our products and product development efforts. The protection of our intellectual property is important to our business and we have a proactive program aimed at protecting our intellectual property and the results from our research and development.

Environmental Matters

We are subject to national, state and local environmental laws and regulations concerning, among other matters, air emissions, wastewater discharge, solid and hazardous waste disposal and employee health and safety. Prior to acquiring facilities, we usually conduct investigations to evaluate the environmental condition of subject properties and may negotiate contractual terms for allocation of environmental exposure arising from prior uses. We operate our facilities in a manner designed to maintain compliance with applicable environmental laws and regulations. Environmental studies have been conducted on certain of our owned and leased properties that indicate additional investigation and some remediation on certain properties may be necessary.

Our Portland, Oregon manufacturing facility is located adjacent to the Willamette River. We have entered into a Voluntary Clean-up Agreement with the Oregon Department of Environmental Quality (DEQ) in which we agreed to conduct an investigation of whether, and to what extent, past or present operations at the Portland property may have released hazardous substances to the environment. We are also conducting groundwater remediation relating to a historical spill on the property that preceded our ownership.

Portland Harbor Site

In December 2000, the U.S. Environmental Protection Agency (EPA) classified portions of the Willamette River bed known as the Portland Harbor, including the portion fronting our manufacturing facility, as a federal

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National Priority List or Superfund site due to sediment contamination (the Portland Harbor Site). We and more than 140 other parties have received a General Notice of potential liability from the EPA relating to the Portland Harbor Site. The letter advised us that we may be liable for the costs of investigation and remediation (which liability may be joint and several with other potentially responsible parties) as well as for natural resource damages resulting from releases of hazardous substances to the site. At this time, ten private and public entities, including us (the Lower Willamette Group or LWG), have signed an Administrative Order on Consent (AOC) to perform a remedial investigation/feasibility study (RI/FS) of the Portland Harbor Site under EPA oversight, and several additional entities have not signed such consent, but are nevertheless contributing money to the effort. The EPA-mandated RI/FS is being produced by the LWG and has cost over \$110 million during a 15-year period. We have agreed to initially bear a percentage of the total costs incurred by the LWG in connection with the investigation. Our aggregate expenditure has not been material during the 15-year period. Some or all of any such outlay may be recoverable from other responsible parties.

Eighty-three parties, including the State of Oregon and the federal government, have entered into a non-judicial mediation process to try to allocate costs associated with the Portland Harbor site. Approximately 110 additional parties have signed tolling agreements related to such allocations. On April 23, 2009, we and the other AOC signatories filed suit against 69 other parties due to a possible limitations period for some such claims; *Arkema Inc. et al v. A & C Foundry Products, Inc. et al*, U.S. District Court, District of Oregon, Case #3:09-cv-453-PK. All but 12 of these parties elected to sign tolling agreements and be dismissed without prejudice, and the case has now been stayed by the court, pending the EPA's Record of Decision, currently scheduled by the EPA for December 31, 2016.

On June 8, 2016, the EPA issued its Feasibility Study (FS) and Proposed Plan for the Portland Harbor Site. The EPA accepted comments from the public on its Proposed Plan through September 6, 2016. The EPA's FS includes remediation alternatives that would take from 4 to 62 years of active remediation, with an estimated undiscounted cost ranging from \$642 million to \$10.2 billion and a net present value assuming a 7% discount rate ranging between \$451 million and \$9.4 billion. The Proposed Plan identifies the alternative currently favored by the EPA, which it assigns an estimated undiscounted cost of between \$1.1 and \$1.2 billion and a net present value of between \$746 and \$811 million. The EPA expects its cost estimates to be accurate within a range of +50 to -30 percent. EPA estimates that the remedy in the Proposed Plan would take 7 years of active remediation followed by 30 years of monitoring. The EPA's FS and its Proposed Plan identify 13 Sediment Decision Units. One of the units, RM9W, includes the nearshore area of the river sediments offshore of our Portland, Oregon manufacturing facility as well as upstream and downstream of the facility. It also includes a portion of our riverbank. Neither the FS nor the Proposed Plan breaks down total remediation costs by unit.

Neither the EPA's FS nor its Proposed Plan addresses responsibility for the costs of clean-up, allocates such costs among the potentially responsible parties, or defines precise boundaries for the cleanup. Responsibility for funding and implementing the EPA's selected cleanup option will be determined after the issuance of the Record of Decision, currently scheduled by the EPA for December 31, 2016. Based on the investigation to date, we believe that we did not contribute in any material way to contamination in the river sediments or the damage of natural resources in the Portland Harbor Site and that the damage in the area of the Portland Harbor Site adjacent to our property precedes its ownership of the Portland, Oregon manufacturing facility. Because these environmental investigations are still underway, sufficient information is currently not available to determine our liability, if any, for the cost of any required remediation or restoration of the Portland Harbor Site or to estimate a range of potential loss. Based on the results of the pending investigations and future assessments of natural resource damages, we may be required to incur costs associated with additional phases of investigation or remedial action, and may be liable for damages to natural resources. In addition, we may be required to perform periodic maintenance dredging in order to continue to launch vessels from its launch ways in Portland, Oregon, on the Willamette River, and the river's classification as a Superfund site could result in some limitations on future dredging and launch activities. Any of these matters could adversely affect our business and Consolidated Financial Statements, or the value of our Portland property.

We have also signed an Order on Consent with the DEQ to finalize the investigation of potential onsite sources of contamination that may have a release pathway to the Willamette River. Interim precautionary measures are also required in the order and we are currently discussing with the DEQ potential remedial actions which may be

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required. Our aggregate expenditure has not been material, however we could incur significant expenses for remediation. Some or all of any such outlay may be recoverable from other responsible parties.

Regulation

The Federal Railroad Administration in the U.S. and Transport Canada in Canada administer and enforce laws and regulations relating to railroad safety. These regulations govern equipment and safety appliance standards for freight cars and other rail equipment used in interstate commerce. The AAR promulgates a wide variety of rules and regulations governing the safety and design of equipment, relationships among railroads and other railcar owners with respect to railcars in interchange, and other matters. The AAR also certifies railcar builders and component manufacturers that provide equipment for use on North American railroads. These regulations require us to maintain our certifications with the AAR as a railcar builder, repair and service provider and component manufacturer, and products sold and leased by us in North America must meet AAR, Transport Canada, and Federal Railroad Administration standards.

The primary regulatory and industry authorities involved in the regulation of the ocean-going barge industry are the U.S. Coast Guard, the Maritime Administration of the U.S. Department of Transportation, and private industry organizations such as the American Bureau of Shipping.

The regulatory environment in Europe consists of a combination of EU regulations and country specific regulations, including a harmonized set of Technical Standards for Interoperability of freight wagons throughout the EU.

Tank Car Regulation

On May 1, 2015 the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA) released new regulations related to new railcar manufacturing and retrofitting modification standards for tank cars in flammable liquids service (the PHMSA Rules). In December 2015, the U.S. Congress passed the Fixing America's Surface Transportation Act (FAST Act), which changed certain requirements of the PHMSA Rules. Under the PHMSA Rules as amended by the FAST Act, the deadlines for modifying or removing existing tank cars from flammables service currently range from January 2018 to May 2029, depending on the type of car and the type of commodity carried. Transport Canada, separately and concurrent with PHMSA, issued final rules on May 1, 2015, establishing new design standards for tank cars carrying flammable liquids in Canada. On July 25, 2016, Transport Canada announced that certain older tank cars, commonly referred to as DOT 111 tank cars, must be removed from crude oil service effective October 31, 2016.

These regulatory changes, along with prevailing market conditions, could materially affect new tank railcar manufacturing and retrofitting activities industry-wide, and activities related to ownership and management of tank cars, including negative impacts to customer demand for products and services offered by Greenbrier and its related entities.

Employees

As of August 31, 2016, we had 9,418 full-time employees, consisting of 8,635 employees in Manufacturing, 545 in Wheels & Parts and 238 employees in Leasing & Services and corporate. In Manufacturing, 5,092 employees, all of whom are located in Mexico and Poland, are represented by unions. At our Wheels & Parts locations, 19 employees are represented by a union. We believe that our relations with our employees are generally good.

Additional Information

We are a reporting company and file annual, quarterly, current and special reports, proxy statements and other information with the Securities and Exchange Commission (SEC). Through a link on the Investor Relations section of our website, <http://www.gbrx.com>, we make available the following filings as soon as reasonably

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practicable after they are electronically filed with or furnished to the SEC: our Annual Report on Form 10-K; Quarterly Reports on Form 10-Q; Current Reports on Form 8-K; and any amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended. All such filings are available free of charge. Copies of our Audit Committee Charter, Compensation Committee Charter, Nominating and Corporate Governance Committee Charter and the Company's Corporate Governance Guidelines are also available on our web site at <http://www.gbrx.com>. In addition, each of the reports and documents listed above are available free of charge by contacting our Investor Relations Department at The Greenbrier Companies, Inc., One Centerpointe Drive, Suite 200, Lake Oswego, Oregon 97035.

The Greenbrier Companies 2016 Annual Report

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Item 1A. RISK FACTORS

In addition to the risks outlined in this annual report under the heading *Forward-Looking Statements*, as well as other comments included herein regarding risks and uncertainties, the following risk factors should be carefully considered when evaluating our company. Our business, financial condition or financial results could be materially and adversely affected by any of these risks.

During economic downturns or a rising interest rate environment, the cyclical nature of our business results in lower demand for our products and services and reduced revenue.

Our business is cyclical. Overall economic conditions and the purchasing practices of buyers have a significant effect upon our business due to the impact on demand for our products and services. As a result, during downturns, we could operate with a lower level of backlog and may slow down or halt production at some or all of our facilities. Economic conditions that result in higher interest rates increase the cost of new leasing arrangements, which could cause some of our leasing customers to lease fewer of our railcars or demand shorter lease terms. An economic downturn or increase in interest rates may reduce demand for our products and services, resulting in lower sales volumes, lower prices, lower lease utilization rates and decreased profits.

Currently, interest rates remain at historically low levels. Higher interest rates could increase the cost of, or potentially deter, new leasing arrangements with our customers, reduce our ability to syndicate railcars under lease to financial institutions, or impact the sales price we may receive on such syndications, any of which could materially adversely affect our business, financial condition and results of operations.

A change in our product mix due to shifts in demand could have an adverse effect on our profitability.

We manufacture and, through GBW, repair a variety of railcars. The demand for specific types of these railcars and mix of refurbishment work varies from time to time. These shifts in demand could affect our revenue and margins and could have an adverse effect on our profitability.

A prolonged decline in performance of the rail freight industry would have an adverse effect on our financial condition and results of operations.

Our future success depends in part upon the performance of the rail freight industry, which in turn depends on the health of the economy. If railcar loadings, railcar and railcar components replacement rates or refurbishment rates or industry demand for our railcar products weaken or otherwise do not materialize, if railcar transportation becomes more efficient from an increase in velocity or a decrease in dwell times, or if the rail freight industry becomes oversupplied, our financial condition and results of operations would be adversely affected.

Our backlog is not necessarily indicative of the level of our future revenues.

Our manufacturing backlog represents future production for which we have written orders from our customers in various periods, and estimated potential revenue attributable to those orders. Some of this backlog is subject to certain conditions, including potential adjustment to prices due to changes in prevailing market prices, or due to lower prices for new orders accepted by us from other customers for similar cars on similar terms and conditions during relevant time periods. Our reported backlog may not be converted to revenue in any particular period and some of our contracts permit cancellations with limited compensation that would not replace lost revenue or margins. In addition, some customers may attempt to cancel or modify a contract even if the contract does not allow for such cancellation or modification, and we may not be able to recover all revenue or earnings lost due to a breach of contract. The likelihood of attempted cancellations or modifications of contracts generally increases during periods of market weakness. Actual revenue from such contracts may not equal our anticipated revenues based on our backlog, and therefore, our backlog is not necessarily indicative of the level of our future revenues.

A portion of our backlog and Leased railcars for syndication relates to the energy sector. A decline in energy prices could negatively impact the creditworthiness of our customers, lead to attempted modifications or

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cancellations of contracts or negatively impact our ability to syndicate our railcars, all of which could materially adversely affect our business, financial condition and results of operations. Backlog as of August 31, 2016 includes an aggregate of 3,800 covered hopper railcars for use in energy related sand transportation; customers may seek to cancel, settle or modify a portion of these railcars. We cannot guarantee that our reported railcar backlog will convert to revenue in any particular period, if at all.

We derive a significant amount of our revenue from a limited number of customers, the loss of or reduction of business from one or more of which could have an adverse effect on our business.

A significant portion of our revenue is generated from a few major customers. Although we have some long-term contractual relationships with our major customers, we cannot be assured that our customers will continue to use our products or services or that they will continue to do so at historical levels. A reduction in the purchase or leasing of our products or a termination of our services by one or more of our major customers could have an adverse effect on our business and operating results.

We could be unable to lease railcars at satisfactory rates, remarket leased railcars on favorable terms upon lease termination or realize the expected residual values upon lease termination, which could reduce our revenue and decrease our overall return or effect our ability to sell leased assets in the future.

The profitability of our railcar leasing business depends on our ability to lease railcars to our customers at satisfactory rates, and to re-market or sell railcars we own or manage upon the expiration of existing lease terms. The total rental payments we receive under our operating leases do not fully amortize the acquisition costs of the leased equipment, which exposes us to risks associated with remarketing the railcars. Our ability to lease or remarket leased railcars profitably is dependent upon several factors, including, but not limited to, market and industry conditions, cost of and demand for competing used or newer models, costs associated with the refurbishment of the railcars, market demand or governmental mandate for refurbishment, and interest rates. A downturn in the industries in which our lessees operate and decreased demand for railcars could also increase our exposure to re-marketing risk because lessees may demand shorter lease terms, requiring us to re-market leased railcars more frequently. Furthermore, the resale market for previously leased railcars has a limited number of potential buyers. From 2014 to 2016, the percentage of railcars in the fleet on lease has declined from approximately 98% to 91%. Our inability to lease, re-market or sell leased railcars on favorable terms could result in reduced revenues and margins or net gain on disposition of equipment and decrease our overall returns and affect our ability to syndicate railcars to investors.

Risks related to our operations outside of the U.S. could adversely affect our operating results.

Our current operations outside of the U.S. and any future expansion of our international operations are subject to the risks associated with cross-border business transactions and activities. Political, legal, trade, financial market or economic changes or instability could limit or curtail our foreign business activities and operations. Some foreign countries in which we operate or may operate have regulatory authorities that regulate railroad safety, railcar design and railcar component part design, performance and manufacturing. If we fail to obtain and maintain certifications of our railcars and railcar parts within the various foreign countries where we operate or may operate, we may be unable to market and sell our railcars in those countries. In addition, unexpected changes in regulatory requirements, tariffs and other trade barriers, more stringent rules relating to labor or the environment, adverse tax consequences and currency and price exchange controls could limit operations and make the manufacture and distribution of our products difficult. The uncertainty of the legal environment or geo-political risks in these and other areas could limit our ability to enforce our rights effectively. Because we have operations outside the U.S., we could be adversely affected by violations of the U.S. Foreign Corrupt Practices Act and similar worldwide anti-corruption laws. We operate in parts of the world that have experienced governmental corruption to some degree, and in certain circumstances, strict compliance with anti-corruption laws may conflict with local customs and practices. The failure to comply with laws governing international business practices may result in substantial penalties and fines. Any international expansion or acquisition that we undertake could amplify these risks related to operating outside of the U.S.

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In addition, in 2015, we began to establish a presence in the GCC region and Latin America and are exploring market opportunities in Eastern Europe and other emerging markets. Our development of customer relationships in these areas may expose us to certain additional risks, including, but not limited to, the following:

- Ongoing instability or changes in a country's or region's economic or political conditions, including inflation, recession, currency fluctuations and actual or anticipated civil and political unrest, terrorist actions, armed hostilities, kidnapping and extortion;
- Longer payment cycles and difficulty in collecting accounts receivable;
- Sovereign risk related to international governments that include, but may not be limited to, governments stopping payments or repudiating their contracts, nationalizing private businesses and assets or altering foreign exchange regulations;
- Renegotiation or nullification of existing contracts;
- An inability to effectively protect intellectual property;
- Uncertainties arising from local business practices, cultural considerations and international political and trade tensions; and
- Our limited knowledge of this market or our inability to protect our interests.

If we are unable to successfully manage the risks associated with our global business, our results of operations, financial condition, liquidity and cash flows may be negatively impacted.

We may pursue strategic opportunities, including new joint ventures, acquisitions and new business endeavors that involve inherent risks, any of which may cause us not to realize anticipated benefits and we could have difficulty integrating the operations of any companies that we acquire or joint ventures we enter into, which could adversely affect our results of operations.

We may not be able to successfully identify suitable joint venture, acquisition and new business endeavors or complete these transactions on acceptable terms. Our identification of suitable joint venture opportunities, acquisition candidates and new business endeavors involve risks inherent in assessing the values, strengths, weaknesses, risks and profitability of these opportunities. Our failure to identify suitable joint ventures, acquisition opportunities and new business endeavors may restrict our ability to grow our business. If we are successful in pursuing such opportunities, we may be required to expend significant funds or incur additional debt, which could materially adversely affect our results of operations and limit our ability to obtain financing for working capital or other purposes and we may be more vulnerable to economic downturns and competitive pressures.

The success of our acquisition and joint venture strategy depends upon our ability to successfully complete acquisitions, to enter into joint ventures and integrate any businesses that we acquire into our existing business. The integration of acquired business operations could disrupt our business by causing unforeseen operating difficulties, diverting management's attention from day-to-day operations and requiring significant financial resources that would otherwise be used for the ongoing development of our business. The difficulties of integration could be increased by the necessity of coordinating geographically dispersed organizations, integrating personnel with disparate business backgrounds and combining different corporate cultures. Each of these circumstances could be more likely to occur or more severe in consequence in the case of an acquisition or joint venture involving a business that is outside of our core areas of expertise. In addition, we could be unable to retain key employees or customers of the combined businesses. We could face integration issues pertaining to the internal controls, information systems and operational functions of the acquired companies and we also could fail to realize cost efficiencies or synergies that we anticipated when selecting our acquisition candidates and joint ventures. Any of these items could adversely affect our results of operations.

Our relationships with our joint venture and alliance partners could be unsuccessful, which could adversely affect our business.

We have entered into several joint venture agreements and other alliances with other companies to increase our sourcing alternatives, reduce costs, to produce new railcars and repair and retrofit railcars. We may seek to

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expand our relationships or enter into new agreements with other companies. If our joint venture or alliance partners are unable to fulfill their contractual obligations or if these relationships are otherwise not successful in the future, our manufacturing and other costs could increase, we could encounter production disruptions, growth opportunities could fail to materialize, or we could be required to fund such joint venture or alliances in amounts significantly greater than initially anticipated, any of which could adversely affect our business.

If any of our joint ventures generate significant losses, including future potential intangible asset or goodwill impairment charges, it could adversely affect our results of operations or cause our investment to be impaired.

We have potential exposure to environmental liabilities, which could increase costs or have an adverse effect on results of operations.

We are subject to extensive national, state, provincial and local environmental laws and regulations concerning, among other things, air emissions, water discharge, solid waste and hazardous substances handling and disposal and employee health and safety. These laws and regulations are complex and frequently change. We could incur unexpected costs, penalties and other civil and criminal liability if we fail to comply with environmental laws or permits issued to us pursuant to those laws. We also could incur costs or liabilities related to off-site waste disposal or remediating soil or groundwater contamination at our properties, including these set forth below and in the Environmental Matters section of this Report. In addition, future environmental laws and regulations may require significant capital expenditures or changes to our operations.

In addition to environmental, health and safety laws, the transportation of commodities by railcar raises potential risks in the event of a derailment or other accident. Generally, liability under existing law in the U.S. and Canada for accidents such as derailments depends on the negligence of the party. However, for certain hazardous commodities being shipped, strict liability concepts may apply.

Our Portland, Oregon manufacturing facility is located adjacent to the Willamette River. We have entered into a Voluntary Cleanup Agreement with the Oregon Department of Environmental Quality (DEQ) in which we agreed to conduct an investigation of whether, and to what extent, past or present operations at the Portland property may have released hazardous substances to the environment. We are also conducting groundwater remediation relating to a historical spill on the property which preceded our ownership.

The U.S. Environmental Protection Agency (EPA) has classified portions of the river bed of the Portland Harbor, including the portion fronting the Company's manufacturing facility, as a federal National Priority List or Superfund site due to sediment contamination (the Portland Harbor Site). We, along with more than 140 other parties, have received a General Notice of potential liability from the EPA relating to the Portland Harbor Site. The letter advised us that we may be liable for the costs of investigation and remediation (which liability may be joint and several with other potentially responsible parties) as well as for natural resource damages resulting from releases of hazardous substances to the site. We are part of a group that signed an Administrative Order on Consent (AOC) to perform a remedial investigation/feasibility study (RI/FS) of the Portland Harbor Site under EPA oversight, and several additional entities have not signed such consent, but are nevertheless contributing money to the effort. We have agreed to initially bear a percentage of the total costs incurred in connection with the investigation. We cannot provide assurance that any such costs will be recoverable from third parties.

On June 8, 2016, the EPA issued its Feasibility Study (FS) and Proposed Plan for the Portland Harbor Site. The EPA accepted comments from the public on its Proposed Plan through September 6, 2016. The EPA's FS includes remediation alternatives that would take from 4 to 62 years of active remediation, with an estimated undiscounted cost ranging from \$642 million to \$10.2 billion and a net present value assuming a 7% discount rate ranging between \$451 million and \$9.4 billion. The Proposed Plan identifies the alternative currently favored by the EPA, which it assigns an estimated undiscounted cost of between \$1.1 and \$1.2 billion and a net present value of between \$746 and \$811 million. The EPA expects its cost estimates to be accurate within a range of +50 to -30 percent. The EPA estimates that the remedy in the Proposed Plan would take 7 years of active remediation followed by 30 years of monitoring. The EPA's FS and its Proposed Plan identify 13 Sediment Decision Units. One of the units, RM9W, includes the nearshore area of the river sediments offshore of our Portland,

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Oregon manufacturing facility as well as upstream and downstream of the facility. It also includes a portion of our riverbank. Neither the FS nor the Proposed Plan breaks down total remediation costs by unit. Neither the feasibility study nor the Proposed Plan addresses responsibility for the costs of clean-up or allocates such costs among potentially responsible parties. Responsibility for funding and implementing the EPA's selected cleanup option will be determined after the issuance of the Record of Decision, which is scheduled for December 31, 2016.

We have also signed an Order on Consent with the DEQ to finalize the investigation of potential onsite sources of contamination that may have a release pathway to the Willamette River. Interim precautionary measures are also required in the order and we are currently discussing with the DEQ potential remedial actions which may be required. Our aggregate expenditure has not been material during the 14-year period, however, we could incur significant expenses for remediation. Some or all of any such outlay may be recoverable from other responsible parties. However, we cannot assure that any such costs will be recoverable from third parties.

Because these environmental investigations are still underway, sufficient information is currently not available to determine our liability, if any, for the cost of any required remediation of the Portland Harbor Site on our adjacent land or to estimate a range of potential loss. Based on the results of the pending investigations and future assessments of natural resource damages, we may be required to incur costs associated with additional phases of investigation or remedial action, and may be liable for damages to natural resources. In addition, we may be required to perform periodic maintenance dredging in order to continue to launch vessels from our launch ways in Portland, Oregon, on the Willamette River, and the river's classification as a Superfund site could result in some limitations on future dredging and launch activities. Any of these matters could adversely affect our business and Consolidated Financial Statements, or the value of our Portland property.

The timing of our asset sales and related revenue recognition could cause significant differences in our quarterly results and liquidity.

We may build railcars or marine barges in anticipation of a customer order, or that are leased to a customer and ultimately planned to be sold to a third party. The difference in timing of production and the ultimate sale is subject to risk. In addition, we periodically sell railcars from our own lease fleet and the timing and volume of such sales is difficult to predict. As a result, comparisons of our manufacturing revenue, deliveries, quarterly net gain on disposition of equipment, income and liquidity between quarterly periods within one year and between comparable periods in different years may not be meaningful and should not be relied upon as indicators of our future performance.

We depend on our senior management team and other key employees, and significant attrition within our management team or unsuccessful succession planning for members of our senior management team and other key employees who are at or nearing retirement age, could adversely affect our business.

Our success depends in part on our ability to attract, retain and motivate senior management and other key employees. Achieving this objective may be difficult due to many factors, including fluctuations in global economic and industry conditions, competitors' hiring practices, cost reduction activities, and the effectiveness of our compensation programs. Competition for qualified personnel can be very intense. We must continue to recruit, retain and motivate senior management and other key employees sufficient to maintain our current business and support our future projects. We are vulnerable to attrition among our current senior management team and other key employees. A loss of any such personnel, or the inability to recruit and retain qualified personnel in the future, could have an adverse effect on our business, financial condition and results of operations.

Many members of our senior management team and other key employees are at or nearing retirement age. If we are unsuccessful in our succession planning efforts, the continuity of our business and results of operations could be adversely affected.

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The rail freight industry could become oversupplied and the use of railcars as a significant mode of transporting freight could decline, become more efficient over time, experience a shift in types of modal transportation, and/or certain railcar types could become obsolete.

The rail freight industry could become oversupplied due to overbuilding which could have a significant impact on the demand for new railcars. In addition, if railcar transportation becomes more efficient from an increase in velocity or a decrease in idle times coupled with lower freight volumes, some of which may be permanent due to a reduction in coal volumes, this could significantly reduce the demand for our products and could adversely affect our results of operations. As the freight transportation markets we serve continue to evolve and become more efficient, the use of railcars may decline in favor of other more economic modes of transportation. Features and functionality specific to certain railcar types could result in those railcars becoming obsolete as customer requirements for freight delivery change. Our operations may be adversely impacted by changes in the preferred method used by customers to ship their products or changes in demand for particular products. The industries in which our customers operate are driven by dynamic market forces and trends, which are in turn influenced by economic and political factors. Demand for our railcars may be significantly affected by changes in the markets in which our customers operate. A significant reduction in customer demand for transportation or manufacture of a particular product or change in the preferred method of transportation used by customers to ship their products could result in the economic obsolescence of our railcars, including those leased by our customers.

We face aggressive competition by a concentrated group of competitors and a number of factors may influence our performance. If we are unable to compete successfully, our market share, margin and results of operations may be adversely affected.

We face aggressive competition by a concentrated group of competitors in all geographic markets and in each area of our business. In addition, several companies have recently attempted to enter the market. The railcar manufacturing and repair industry is intensely competitive and we expect it to remain so in the foreseeable future. Competitive factors, including introduction of competitive products, new entrants into certain of our markets, price pressures, limited customer base and the relative competitiveness of our manufacturing facilities and products affect our ability to compete effectively. In addition, new technologies or the introduction of new railcars or other product offerings by our competitors could render our products obsolete or less competitive. If we do not compete successfully, our market share, margin and results of operation may be adversely affected.

A number of factors may influence our performance, including without limitation: fluctuations in the demand for newly manufactured railcars or marine barges; fluctuations in demand for wheels, repair and parts; our ability to adjust to the cyclical nature of the industries in which we operate; delays in receipt of orders, risks that contracts may be canceled during their term or not renewed and that customers may not purchase the amount of products or services under the contracts as anticipated; our customers may be financially unable to pay for products and services already provided; domestic and global economic conditions including such matters as embargoes or quotas; growth or reduction in the surface transportation industry; steel and specialty component price fluctuations and availability, scrap surcharges, steel scrap prices and other commodity price fluctuations and their impact on product demand and margin; loss of business from, or a decline in the financial condition of, any of the principal customers that represent a significant portion of our total revenues; industry overcapacity and our manufacturing capacity utilization; and other risks, uncertainties and factors. If we are unfavorably affected by any of these factors, our market share, margin and results of operation may be adversely affected.

Changes in the credit markets and the financial services industry could negatively impact our business, results of operations, financial condition or liquidity.

The credit markets and the financial services industry may experience volatility which can result in tighter availability of credit on more restrictive terms and limit our ability to sell railcar assets. Our liquidity, financial condition and results of operations could be negatively impacted if our ability to borrow money to finance operations, obtain credit from trade creditors, offer leasing products to our customers or sell railcar assets were to be impaired. In addition, scarcity of capital could also adversely affect our customers' ability to purchase or pay for products from us or our suppliers' ability to provide us with product, either of which could negatively affect our business and results of operations.

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Exposure to fluctuations in commodity and energy prices may impact our results of operations.

Fluctuations in commodity and energy prices, including crude oil and gas prices, could negatively impact the activities of our customers resulting in a corresponding adverse effect on the demand for our products and services. These shifts in demand could affect our results of operations and could have an adverse effect on our profitability. Demand for railcars that are used to transport crude oil and other energy related products is dependent on the demand for these commodities. Prices for oil and gas are subject to large fluctuations in response to relatively minor changes in the supply of, and demand for, oil and gas, market uncertainty and a variety of other economic factors that are beyond our control.

In recent years, oil and gas prices and, therefore, the level of exploration, development and production activity, have experienced significant fluctuations. Worldwide economic, political and military events, including war, terrorist activity, events in the Middle East and initiatives by the Organization of the Petroleum Exporting Countries (OPEC), have contributed, and are likely to continue to contribute, to price and volume volatility. Increasing global supply of oil in conjunction with weakening demand from slowing economic growth in Europe and Asia and increased fuel-efficiency has created downward pressure on crude oil prices.

Volatility in the global financial markets may adversely affect our business, financial condition and results of operation.

During periods of volatility in the global financial markets, certain of our customers could delay or otherwise reduce their purchases of railcars and other products and services. If volatile conditions in the global credit markets impact our customers' access to credit, product order volumes may decrease or customers may default on payments owed to us.

Likewise, if our suppliers face challenges obtaining credit, or otherwise operating their businesses, the supply of materials we purchase from them to manufacture our products may be interrupted. Any of these conditions or events could result in reductions in our revenues, increased price competition, or increased operating costs, which could adversely affect our business, financial condition and results of operations.

On June 23, 2016, the United Kingdom (UK) held a non-binding advisory referendum in which voters voted for the UK to exit the EU (Brexit). Brexit has caused volatility in global stock markets and currency exchange rate fluctuations, including the strengthening of the U.S. dollar against foreign currencies. Brexit may create further uncertainty in European and worldwide markets, which may cause our customers or potential customers to delay or reduce spending on our products or services, and may limit our suppliers' access to credit. Any of these effects of Brexit, among others, could negatively impact our business, results of operations and financial condition.

Our actual results may differ significantly from our announced strategic initiatives.

From time to time, we have released, and may continue to release information in our quarterly earnings releases, quarterly earnings conference calls, or otherwise, regarding our anticipated future performance and goals. Our actual results may differ significantly and we may not be successful in achieving the objectives outlined in our announced strategic initiatives. Failure to meet these goals could have a material adverse effect on the trading price or volume of our stock.

We rely on limited suppliers for certain components and services needed in our production. If we are not able to procure specialty components or services on commercially reasonable terms or on a timely basis, our business, financial condition and results of operations would be adversely affected.

Our manufacturing operations depend in part on our ability to obtain timely deliveries of materials, components and services in acceptable quantities and quality from our suppliers. In 2016, the top ten suppliers for all

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inventory purchases accounted for approximately 46% of total purchases. Amsted Rail Company, Inc. accounted for 21% of total inventory purchases in 2016. No other suppliers accounted for more than 10% of total inventory purchases. Certain components of our products, particularly specialized components like castings, bolsters, trucks, wheels and axels, and certain services, such as lining capabilities, are currently available from only a limited number of suppliers. Increases in the number of railcars manufactured have increased the demand for such components and services and strong demand may cause industry-wide shortages if suppliers are in the process of ramping up production or reach capacity production. Our dependence on a limited number of suppliers involves risks, including limited control over pricing, availability and delivery schedules. If any one or more of our suppliers cease to provide us with sufficient quantities of our components or services in a timely manner or on terms acceptable to us, or cease to provide services or manufacture components of acceptable quality, we could incur disruptions or be limited in our production of our products and we could have to seek alternative sources for these components or services. We could also incur delays while we attempt to locate and engage alternative qualified suppliers and we might be unable to engage acceptable alternative suppliers on favorable terms, if at all. In addition, we are increasing the number of components and services we manufacture or provide ourselves, directly or through joint ventures. If we are not successful at manufacturing such components or providing such services or have production problems after transitioning to self-produced supplies, we may not be able to replace such components or services from third party suppliers in a timely manner. Any such disruption in our supply of specialized components and services or increased costs of those components or services could harm our business and adversely affect our results of operations.

U.S. and Canadian railroad industry regulatory authorities released new regulations related to tank railcar manufacturing and retrofitting standards on May 1, 2015. These regulatory changes could materially affect the tank railcar manufacturing and retrofitting process industry-wide, which could negatively affect the potential availability of certain critical components and raw materials including, in particular, steel. If we are unable to source critical components and raw materials like steel in a timely manner and at reasonable cost, we may be unable to manufacture or retrofit railcars that comply with the new regulations or take advantage of any increase in demand for our products and services as a result of any such new regulations, and our business, financial condition and results of operations could be materially adversely affected.

Train derailments or other accidents or claims could subject us to legal claims that adversely impact our business, financial condition and our results of operations.

We provide a number of services which include the manufacture and supply of wheels, components and parts and lease of railcars for our customers that transport a variety of commodities, including tank railcars that transport hazardous materials such as crude oil, ethanol and other products. We could be subject to various legal claims, including claims for negligence, personal injury, physical damage and product or service liability, or in some cases strict liability, as well as potential penalties and liability under environmental laws and regulations, in the event of a derailment or other accident involving railcars, including tank railcars. Additionally, the severity of injury or property damage arising from an incident may influence the causation responsibility analysis exposing us to potentially greater liability. If we become subject to any such claims and are unable successfully to resolve them or have inadequate insurance for such claims, our business, financial condition and results of operations could be materially adversely affected.

Changes in legal and regulatory requirements applicable to the industries in which we operate may adversely impact our business, financial condition and results of operations.

Regulatory changes, along with prevailing market conditions, could materially affect new tank railcar manufacturing and retrofitting activities industry-wide, including negative impacts to customer demand for our products and services. Additional laws and regulations have been proposed or adopted that will potentially have a significant impact on railroad operations, including the implementation of positive train control (PTC) requirements. PTC is a collision avoidance technology intended to override engineer controlled locomotives and stop certain types of train accidents.

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While certain of these legal and regulatory changes could result in increased levels of repair or refurbishment work for GBW and/or new tank car manufacturing activity, if we are unable to manage to adapt our business successfully to changing regulations, our business and results of operations could be adversely affected. We have made investments in GBW and our new railcar facilities in anticipation of increased demand for retrofits and new tank cars as a result of new regulations. If this demand does not begin to materialize, we may not realize the revenue we anticipated. Or if the demand does materialize, we may not be able to adapt to meet this demand.

We have 312 DOT 111 tank railcars in our lease fleet with a net book value of approximately \$19.1 million as of August 31, 2016. As a result of the final rule adopted by PHMSA in May 2015, certain of our tank cars could be deemed unfit for further commercial use or require retrofits or modifications, and the costs associated with any required retrofits or modifications could be substantial.

We cannot provide assurance that costs incurred to comply with any new standards and regulations, including those finalized by PHMSA in May 2015, will not be material to our business, financial condition or results of operations.

In addition, the speed restrictions imposed by the new regulations on trains transporting certain types of potentially hazardous cargo may have an adverse impact on demand for tank cars, or potentially other types of freight cars. While rail velocity is affected by many factors including general economic conditions, and has increased since the adoption of the regulations, in some circumstances the specific velocity restrictions imposed by the regulations may significantly reduce overall velocity on congested rail networks. This in turn could lead to an increase in the cost of rail freight transportation and impact availability, making rail less competitive compared to alternative modes of freight transportation. It could also lead to reduced demand for our products as railroads limit additional equipment on their lines.

Any failure by us to comply with regulations imposed by federal and foreign agencies could negatively affect our financial results.

Our operations and the industry we serve, including our customers, are subject to extensive regulation by governmental, regulatory and industry authorities and by federal and foreign agencies. These organizations establish rules and regulations for the railcar industry, including construction specifications and standards for the design and manufacture of railcars; mechanical, maintenance and related standards; and railroad safety. New regulatory rulings and regulations from these entities could impact our financial results, demand for our products and the economic value of our assets. In addition, if we fail to comply with the requirements and regulations of these entities, we could face sanctions and penalties that could negatively affect our financial results.

Compliance with health care legislation and increases in the cost of providing health care plans to our employees may adversely affect our business.

In March 2010, Congress passed the Patient Protection and Affordable Care Act and the Health Care and Education Affordability Reconciliation Act (collectively, the Acts). Among other things, the Acts contain provisions that affect employer-sponsored health care plans, impose excise taxes on certain plans, and reduce the tax benefits available to employers that receive the Medicare Part D subsidy. Nationally, the cost of providing health care plans to a company's employees has increased at annual rates in excess of inflation. Continued significant annual increases in the cost of providing employee health coverage may adversely affect our business and results of operations.

An adverse outcome in any pending or future litigation could negatively impact our business and results of operations.

We are a defendant in several pending cases in various jurisdictions. If we are unsuccessful in resolving these claims, our business and results of operations could be adversely affected. In addition, future claims that may

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arise relating to any pending or new matters, whether brought against us or initiated by us against third parties, could distract management's attention from business operations and increase our legal and related costs, which could also negatively impact our business and results of operations.

Risks related to potential misconduct by employees may adversely impact us.

Our employees may engage in misconduct or other improper activities, including noncompliance with our policies or regulatory standards and requirements, which could subject us to regulatory sanctions and materially harm our business. It is not always possible to deter employee misconduct, and the precautions we take to prevent and detect this activity may not be effective in controlling unknown or unmanaged risks or losses, including risks associated with whistleblower complaints and litigation. There can be no assurance that we will succeed in preventing misconduct by employees in the future. In addition, the investigation of alleged misconduct disrupts our operations and may be costly. Any such events in the future may have a material adverse impact on our financial condition or results of operations.

Shortages of skilled labor could adversely affect our operations.

We depend on skilled labor in the manufacture of railcars and marine barges, repair, refurbishment, retrofitting and maintenance of railcars and provision of wheel services and supply of parts. Some of our facilities are located in areas where demand for skilled laborers often exceeds supply. Shortages of some types of skilled laborers such as welders and machine operators could restrict our ability to maintain or increase production rates, lead to production inefficiencies and increase our labor costs.

Some of our employees belong to labor unions and strikes or work stoppages could adversely affect our operations.

We are a party to collective bargaining agreements with various labor unions at some of our operations. Disputes with regard to the terms of these agreements or our potential inability to negotiate acceptable contracts with these unions in the future could result in, among other things, strikes, work stoppages or other slowdowns by the affected workers. We cannot be assured that our relations with our workforce will remain positive. Union organizers are actively working to organize at some of our other facilities. If our workers were to engage in a strike, work stoppage or other slowdown, or other employees were to become unionized or the terms and conditions in future labor agreements were renegotiated, or if union representation is implemented at such sites and we are unable to agree with the union on reasonable employment terms, including wages, benefits, and work rules, we could experience a significant disruption of our operations and higher ongoing labor costs. In addition, we could face higher labor costs in the future as a result of severance or other charges associated with lay-offs, shutdowns or reductions in the size and scope of our operations or due to the difficulties of restarting our operations that have been temporarily shuttered.

The price of our common stock is subject to volatility.

The market price for our common stock has varied between a high closing sales price of \$77.54 per share and a low closing sales price of \$20.96 per share in the twenty-four months ended August 31, 2016. This volatility affects the price at which our common stock can be sold. The broader stock market has also experienced price and volume fluctuations. This volatility has affected the market prices of securities issued by many companies for reasons unrelated to their operating performance and may adversely affect the price of our common stock. The price for our common stock is likely to continue to be volatile and subject to price and volume fluctuations in response to market and other factors, including the factors discussed elsewhere in these risk factors and the following:

- financial market and general economic changes;
- changes in governmental regulation;

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significant railcar industry announcements or developments;
the introduction of new products or technologies by us or our competitors;
actual or anticipated variations in our or our competitors' quarterly or annual financial results;
financial results failing to meet expectations of analysts or investors, including the level of our backlog and number of orders received during the period;
changes in securities analysts' estimates of our future performance; and
the general health and outlook of our industry.

In addition, in the past, following periods of volatility in the market price of their stock, many companies have been the subject of securities class action litigation. If we became involved in securities class action litigation in the future, it could result in substantial costs and diversion of our management's attention and resources and could harm our stock price, business, prospects, financial condition and results of operations.

A failure to design or manufacture products or technologies or to achieve timely certification or market acceptance of new products or technologies could have an adverse effect on our profitability.

We continue to introduce new railcar products and technologies, and we periodically accept orders prior to receipt of railcar certification or proof of ability to manufacture a quality product that meets customer standards. We could be unable to successfully design or manufacture these new railcar products and technologies. Our inability to develop and manufacture such new products and technologies in a timely fashion and profitable manner, obtain timely certification, or achieve market acceptance, or the existence of quality problems in our new products, could have a material adverse effect on our revenue and results of operations and subject us to penalties, cancellation of orders and/or other damages.

Our product and service warranties could expose us to potentially significant claims.

We offer our customers limited warranties for many of our products and services. Accordingly, we may be subject to significant warranty claims in the future, such as multiple claims based on one defect repeated throughout our production or servicing process or claims for which the cost of repairing the defective part is highly disproportionate to the original cost of the part. These types of warranty claims could result in costly product recalls, customers seeking monetary damages, significant repair costs and damage to our reputation.

If warranty claims attributable to actions of third party component manufacturers are not recoverable from such parties due to their poor financial condition or other reasons, we could be liable for warranty claims and other risks for using these materials on our products.

Many of our products are sold to third parties who may misuse, improperly install or improperly or inadequately maintain or repair such products thereby potentially exposing us to claims that could increase our costs and weaken our financial condition.

The products we manufacture are designed to work optimally when properly operated, installed, repaired, and maintained. When this does not occur, we may be subjected to claims or litigation associated with injuries or property damage that could increase our costs and weaken our financial condition.

Our financial performance and market value could cause future write-downs of goodwill or intangibles in future periods.

We are required to perform an annual impairment review of goodwill and indefinite lived assets which could result in an impairment charge if it is determined that the carrying value of the asset is in excess of the fair value. We perform a goodwill impairment test annually during our third fiscal quarter. Goodwill is also tested more frequently if changes in circumstances or the occurrence of events indicates that a potential impairment exists.

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When changes in circumstances, such as a decline in the market price of our common stock, changes in demand or in the numerous variables associated with the judgments, assumptions and estimates made in assessing the appropriate valuation of goodwill indicate the carrying amount of certain indefinite lived assets may not be recoverable, the assets are evaluated for impairment. Among other things, our assumptions used in the valuation of goodwill, which relate to our wheels & parts and Repair operations, include growth of revenue and margins and increased cash flows over time. If actual operating results were to differ from these assumptions, it may result in an impairment of our goodwill. As of August 31, 2016, we had \$43.3 million of goodwill in our Wheels & Parts segment, relating to our wheels & parts business. Future write-downs of goodwill and intangibles could affect certain of the financial covenants under debt instruments and could restrict our financial flexibility. In the event of goodwill impairment, we may have to test other intangible assets for impairment. Impairment charges to our or our joint venture's goodwill or our indefinite lived assets would impact our results of operations.

If we or our joint ventures fail to complete capital expenditure projects on time and within budget, or if these projects, once completed, fail to operate as anticipated, such failure could adversely affect our business, financial condition and results of operations.

From time-to-time, we, or our joint ventures, undertake strategic capital projects in order to enhance, expand and/or upgrade facilities and operational capabilities. Our ability, and our joint ventures' ability, to complete these projects on time and within budget, and for us to realize the anticipated increased revenues or otherwise realize acceptable returns on these investments or other strategic capital projects that may be undertaken is subject to a number of risks. Many of these risks are beyond our control, including a variety of market, operational, permitting, and labor related factors. In addition, the cost to implement any given strategic capital project ultimately may prove to be greater than originally anticipated. If we, or our joint ventures, are not able to achieve the anticipated results from the implementation of any of these strategic capital projects, or if unanticipated implementation costs are incurred, our business, financial condition and results of operations may be adversely affected.

We have indebtedness, which could have negative consequences to our business or results of operations.

As of August 31, 2016, our total debt was approximately \$304.0 million, consisting of convertible notes and term loans. Our indebtedness could have negative consequences to us, and could place us at a competitive disadvantage compared to our competitors. It may be difficult for us to satisfy our repayment and other obligations with respect to such indebtedness, and we may not be able to refinance our existing indebtedness as it matures. Indebtedness may also increase our vulnerability to adverse general economic, industry or competitive developments or conditions and limit our flexibility in planning for, or reacting to, changes in our business and the industry in which we operate. We may be limited in our ability to raise additional capital or obtain additional financing to fund our operations, capital expenditures or other growth initiatives, and other general corporate requirements and may be required to dedicate a significant portion of our cash flow from operations to interest and principal payments on our indebtedness. We are more exposed to the risk of increased interest rates as certain of our borrowings are at variable rates of interest. As a consequence of our indebtedness, a portion of our cash flow from operations is dedicated to debt service requirements. In addition, the terms of our revolving credit facility limit our ability to incur additional indebtedness. If we fail to comply with these covenants, a default may occur, in which case the lender could accelerate the debt. We cannot be assured that we would be able to renegotiate, refinance, restructure or otherwise obtain the necessary funds to satisfy the indebtedness or these obligations.

Fluctuations in foreign currency exchange rates could lead to increased costs and lower profitability.

Outside of the U.S., we conduct business in Mexico, Poland, other European countries, Brazil and Saudi Arabia, and our non-U.S. businesses conduct their operations in local currencies and other regional currencies. We also source materials worldwide. Fluctuations in exchange rates may affect demand for our products in foreign markets or our cost competitiveness and may adversely affect our profitability. Although we attempt to mitigate a

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portion of our exposure to changes in currency rates through currency rate hedge contracts and other activities, these efforts cannot fully eliminate the risks associated with the foreign currencies. In addition, some of our borrowings are in foreign currency, giving rise to risk from fluctuations in exchange rates. A material or adverse change in exchange rates could result in significant deterioration of profits or in losses for us.

Fluctuations in the availability and price of energy, freight transportation, steel and other raw materials, and our fixed price contracts could have an adverse effect on our ability to manufacture and sell our products on a cost-effective basis and could adversely affect our margins and revenue of our Manufacturing and wheels & parts and Repair businesses.

A significant portion of our business depends upon the adequate supply of steel, components and other raw materials at competitive prices and a small number of suppliers provide a substantial amount of our requirements. The cost of steel and all other materials used in the production of our railcars represents more than half of our direct manufacturing costs per railcar and in the production of our marine barges represents more than 30% of our direct manufacturing costs per marine barge.

Our businesses also depend upon the adequate supply of energy at competitive prices. When the price of energy increases, it adversely impacts our operating costs and could have an adverse effect upon our ability to conduct our businesses on a cost-effective basis. We cannot be assured that we will continue to have access to supplies of energy or necessary components for manufacturing railcars and marine barges. Our ability to meet demand for our products could be adversely affected by the loss of access to any of these supplies, the inability to arrange alternative access to any materials, or suppliers limiting allocation of materials to us.

In some instances, we have fixed price contracts which anticipate material price increases and surcharges, or contracts that contain actual or formulaic pass-through of material price increases and surcharges. However, if the price of steel or other raw materials were to fluctuate in excess of anticipated increases on which we have based our fixed price contracts, or if we were unable to adjust our selling prices or have adequate protection in our contracts against changes in material prices, or if we are unable to reduce operating costs to offset any price increases, our margins would be adversely affected. The loss of suppliers or their inability to meet our price, quality, quantity and delivery requirements could have an adverse effect on our ability to manufacture and sell our products on a cost-effective basis.

Decreases in the price of scrap adversely impact our Wheels & Parts and GBW Joint Venture margins and revenue and the residual value and future depreciation of our leased assets. A portion of our wheels & parts and Repair businesses involves scrapping steel parts and the resulting revenue from such scrap steel increases our margins and revenues. When the price of scrap steel declines, our revenues and margins in such business therefore decrease.

We are subject to cybersecurity risks and may incur increasing costs in an effort to minimize those risks.

Our business employs systems and websites that allow for the storage and transmission of proprietary or confidential information regarding our customers, employees, job applicants and other parties, including financial information, intellectual property and personal identification information. Security breaches and other disruptions could compromise our information, expose us to liability and harm our reputation and business. The steps we take to deter and mitigate these risks may not be successful. We may not have the resources or technical sophistication to anticipate or prevent current or rapidly evolving types of cyber-attacks. Attacks may be targeted at us, our customers, or others who have entrusted us with information. Actual or anticipated attacks may cause us to incur increasing costs, including costs to deploy additional personnel and protection technologies, train employees, and engage third-party experts or consultants. Advances in computer capabilities, or other technological developments may result in the technology and security measures used by us to protect transaction or other data being breached or compromised. In addition, data and security breaches can also occur as a result of non-technical issues, including intentional or inadvertent breach by our employees or by persons with whom we have commercial relationships. Any compromise or breach of our security could result in a violation of

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applicable privacy and other laws, legal and financial exposure, negative impacts on our customers' willingness to transact business with us and a loss of confidence in our security measures, which could have an adverse effect on our results of operations and our reputation.

Updates or changes to our information technology systems may result in problems that could negatively impact our business.

We have information technology systems, comprising hardware, network, software, people, processes and other infrastructure that are important to the operation of our businesses. We continue to evaluate and implement upgrades and changes to information technology systems that support substantially all of our operating and financial functions. We could experience problems in connection with such implementations, including compatibility issues, training requirements, higher than expected implementation costs and other integration challenges and delays. A significant problem with an implementation, integration with other systems or ongoing management and operation of our systems could negatively impact our business by disrupting operations. Such a problem could also have an adverse effect on our ability to generate and interpret accurate management and financial reports and other information on a timely basis, which could have a material adverse effect on our financial reporting system and internal controls and adversely affect our ability to manage our business.

If we are unable to protect our intellectual property and prevent its improper use by third parties or if third parties assert that our products or services infringe their intellectual property rights, our ability to compete in the market may be harmed, and our business and financial condition may be adversely affected.

The protection of our intellectual property is important to our business. We rely on a combination of trademarks, copyrights, patents and trade secrets to protect our intellectual property. However, these protections might be inadequate. Our pending or future trademark, copyright and patent applications might not be approved or, if allowed, might not be sufficiently broad. If our intellectual property rights are not adequately protected we may not be able to commercialize our technologies, products or services and our competitors could commercialize our technologies, which could result in a decrease in our sales and market share and could materially adversely affect our business, financial condition and results of operations. Conversely, third parties might assert that our products, services, or other business activities infringe their patents or other intellectual property rights. Infringement and other intellectual property claims and proceedings brought against us, whether successful or not, could result in substantial costs and harm our reputation. Such claims and proceedings can also distract and divert our management and key personnel from other tasks important to the success of our business. In addition, intellectual property litigation or claims could force us to cease selling or using products that incorporate the asserted intellectual property, which would adversely affect our revenues, pay substantial damages for past use of the asserted intellectual property or pay substantial fees to obtain a license from the holder of the asserted intellectual property, which license may not be available on reasonable terms, if at all. In the event of an adverse determination in an intellectual property suit or proceeding, or our failure to license essential technology or redesign our products so as not to infringe third party intellectual property rights, our sales could be harmed and our costs could increase, which could materially adversely affect our business, financial condition and results of operations.

We could be liable for physical damage, business interruption or product liability claims that exceed our insurance coverage.

The nature of our business subjects us to physical damage, business interruption and product liability claims, especially in connection with the repair and manufacture of products that carry hazardous or volatile materials. Although we maintain liability insurance coverage at commercially reasonable levels compared to similarly-sized heavy equipment manufacturers, an unusually large physical damage, business interruption or product liability claim or a series of claims based on a failure repeated throughout our production process could exceed our insurance coverage or result in damage to our reputation.

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We could be unable to procure adequate insurance on a cost-effective basis in the future.

The ability to insure our businesses, facilities and rail assets is an important aspect of our ability to manage risk. As there are only limited providers of this insurance to the railcar industry, there is no guarantee that such insurance will be available on a cost-effective basis in the future. In addition, we cannot assure that our insurance carriers will be able to pay current or future claims.

Changes in accounting standards or inaccurate estimates or assumptions in the application of accounting policies could adversely affect our financial results.

Our accounting policies and methods are fundamental to how we record and report our financial condition and results of operations. Some of these policies require use of estimates and assumptions that may affect the reported value of our assets or liabilities and financial results and are critical because they require management to make difficult, subjective, and complex judgments about matters that are inherently uncertain. Accounting standard setters and those who interpret the accounting standards (such as the Financial Accounting Standards Board, the SEC, and our independent registered public accounting firm) may amend or even reverse their previous interpretations or positions on how these standards should be applied. In some cases, we could be required to apply a new or revised standard retrospectively, resulting in the revision of prior period financial statements. Changes in accounting standards can be hard to predict and can materially impact how we record and report our financial condition and results of operations.

Fires, natural disasters, severe weather conditions or public health crisis could disrupt our business and result in loss of revenue or higher expenses.

Any serious disruption at any of our facilities due to fire, hurricane, earthquake, flood, or any other natural disaster, or an epidemic or other public health crisis, or a panic reaction to a perceived health risk, could impair our ability to use our facilities and have a material adverse impact on our revenues and increase our costs and expenses. If there is a natural disaster or other serious disruption at any of our facilities, particularly any of our Mexican facilities, it could impair our ability to adequately supply our customers, cause a significant disruption to our operations, cause us to incur significant costs to relocate or reestablish these functions and negatively impact our operating results. While we insure against certain business interruption risks, such insurance may not adequately compensate us for any losses incurred as a result of natural or other disasters.

Unusual weather conditions may reduce demand for our wheel-related parts and repair services.

Performing railcar wheel repair and replacing railcar wheels represents a portion of our business. Seasonal fluctuations in weather conditions may lead to greater variation in our quarterly operating results as unusually mild weather conditions will generally lead to lower demand for our wheel-related products and services. In addition, unusually mild weather conditions throughout the year may reduce overall demand for our wheel-related products and repair services. If occurring for prolonged periods, such weather could have an adverse effect on our business, results of operations and financial condition.

Business, regulatory, and legal developments regarding climate change may affect the demand for our products or the ability of our critical suppliers to meet our needs.

We have followed the current debate over climate change in general, and the related science, policy discussion, and prospective legislation. Some scientific studies have suggested that emissions of certain gases, commonly referred to as greenhouse gases (GHGs) and including carbon dioxide and methane, may be contributing to warming of the Earth's atmosphere and other climate changes. Additionally, the potential challenges and opportunities for our company that climate change policy and legislation may pose are reviewed. However, any such challenges or opportunities are heavily dependent on the nature and degree of climate change legislation and the extent to which it applies to our industries.

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In response to an emerging scientific and political consensus, legislation and new rules to regulate emission of GHGs has been introduced in numerous state legislatures, the U.S. Congress, and by the EPA. Some of these proposals would require industries to meet stringent new standards that may require substantial reductions in carbon emissions. While we cannot assess the direct impact of these or other potential regulations, we recognize that new climate change protocols could affect the demand for our products and/or affect the price of materials, input factors and manufactured components which could impact our margins. Potential opportunities could include greater demand for certain types of railcars, while potential challenges could include decreased demand for certain types of railcars or other products and higher energy costs. Other adverse consequences of climate change could include an increased frequency of severe weather events and rising sea levels that could affect operations at our manufacturing facilities, the price of insuring company assets, or other unforeseen disruptions of our operations, systems, property or equipment. Ultimately, when or if these impacts may occur cannot be assessed until scientific analysis and legislative policy are more developed and specific legislative proposals begin to take shape.

Repercussions from terrorist activities or armed conflict could harm our business.

Terrorist activities, anti-terrorist efforts, and other armed conflict involving the U.S. or its interests abroad may adversely affect the U.S. and global economies, potentially preventing us from meeting our financial and other obligations. In particular, the negative impacts of these events may affect the industries in which we operate. This could result in delays in or cancellations of the purchase of our products or shortages in raw materials, parts, or components. Any of these occurrences could have a material adverse impact on our financial results.

Unanticipated changes in our tax provisions or exposure to additional income tax liabilities could affect our financial condition and profitability.

We are subject to income taxes in both the United States and foreign jurisdictions. Significant judgment is required in determining our worldwide provision for income taxes. Changes in estimates of projected future operating results, loss of deductibility of items, recapture of prior deductions (including related to interest on convertible notes), or changes in assumptions regarding our ability to generate future taxable income could result in significant increases to our tax expense and liabilities that could adversely affect our financial condition and profitability.

Some of our customers place orders for our products in reliance on their ability to utilize tax benefits or tax credits such as accelerated depreciation.

There is no assurance that tax authorities will reauthorize, modify, or otherwise not allow the expiration of such tax benefits, tax credits, or reimbursement policies, and in cases where such subsidies and policies are materially modified to reduce the available benefit, credit, or reimbursement or are otherwise allowed to expire, the demand for our products could decrease, thereby creating the potential for a material adverse effect on our financial condition or results of operations.

From time to time we may take tax positions that the Internal Revenue Service or other tax authorities may contest.

We have in the past and may in the future take tax positions that the Internal Revenue Service (IRS) or other tax authorities may contest. We are required by an IRS regulation to disclose particular tax positions to the IRS as part of our tax returns for that year and future years. If the IRS or other tax authorities successfully contests a tax position that we take, we may be required to pay additional taxes, interest or fines that may adversely affect our results of operation and financial position.

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Our share repurchase program is intended to enhance long-term shareholder value although we cannot assure this will occur and this program may be suspended or terminated at any time.

The Board of Directors has authorized our company to repurchase our common stock through a share repurchase program. Our share repurchase program may be modified, suspended or discontinued at any time without prior notice. Although the share repurchase program is intended to enhance long-term shareholder value, we cannot provide assurance that this will occur.

Payments of cash dividends on our common stock may be made only at the discretion of our board of directors and may be restricted by Oregon law.

Any decision to pay dividends will be at the discretion of our Board of Directors and will depend upon our operating results, strategic plans, capital requirements, financial condition, provisions of our borrowing arrangements and other factors our Board of Directors considers relevant. Furthermore, Oregon law imposes restrictions on our ability to pay dividends. Accordingly, we may not be able to continue to pay dividends in any given amount in the future, or at all.

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None.

Item 2. PROPERTIES

We operate at the following primary facilities as of August 31, 2016:

| Description | Location | Status |
|--|--------------------------|-------------------------------|
| Manufacturing Segment | | |
| Manufacturing facilities: | Portland, Oregon | Owned |
| | Sahagun, Mexico | Owned |
| | Tlaxcala, Mexico | Owned |
| | Frontera, Mexico | Leased |
| | 3 locations in Poland | Owned |
| Administrative offices: | Colleyville, Texas | Leased |
| Wheels & Parts Segment | | |
| Wheels & Parts facilities: | 14 locations in the U.S. | Leased 8 locations |
| | | Owned 6 locations |
| Repair facilities leased to GBW: | 14 locations in the U.S. | Leased 8 locations |
| | | Owned 3 locations |
| | | Customer premises 3 locations |
| | 1 location in Canada | Customer premises |
| Administrative offices: | Birmingham, Alabama | Leased |
| Leasing & Services Segment | | |
| Corporate offices, railcar marketing and leasing activities: | Lake Oswego, Oregon | Leased |

We believe that our facilities are in good condition and that the facilities, together with anticipated capital improvements and additions, are adequate to meet our operating needs for the foreseeable future. We continually evaluate our facilities in order to remain competitive and to take advantage of market opportunities.

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Item 3. LEGAL PROCEEDINGS

There is hereby incorporated by reference the information disclosed in Note 22 to Consolidated Financial Statements, Part II, Item 8 of this Form 10-K.

Item 4. MINE SAFETY DISCLOSURES

Not applicable.

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Our common stock has been traded on the New York Stock Exchange under the symbol GBX since July 14, 1994. There were approximately 373 holders of record of common stock as of October 19, 2016. The following table shows the reported high and low sales prices of our common stock on the New York Stock Exchange for the fiscal periods indicated.

| | High | Low | Dividends Declared |
|----------------|----------|----------|--------------------|
| 2016 | | | |
| Fourth quarter | \$ 34.94 | \$ 25.90 | \$ 0.21 |
| Third quarter | \$ 32.78 | \$ 24.27 | \$ 0.20 |
| Second quarter | \$ 36.23 | \$ 19.89 | \$ 0.20 |
| First quarter | \$ 42.04 | \$ 30.35 | \$ 0.20 |
| 2015 | | | |
| Fourth quarter | \$ 62.95 | \$ 33.10 | \$ 0.15 |
| Third quarter | \$ 66.50 | \$ 49.61 | \$ 0.15 |
| Second quarter | \$ 60.77 | \$ 42.62 | \$ 0.15 |
| First quarter | \$ 78.32 | \$ 45.09 | \$ 0.15 |

Dividends

There is no assurance as to the payment of future dividends as they are dependent upon future earnings, capital requirements, customary debt covenant restrictions and our financial condition.

Issuer Purchases of Equity Securities

Since October 2013, the Board of Directors has authorized the Company to repurchase in aggregate up to \$225 million of the Company's common stock. The program may be modified, suspended or discontinued at any time without prior notice and currently has an expiration date of January 1, 2018. Under the share repurchase program, shares of common stock may be purchased on the open market or through privately negotiated transactions from time-to-time. The timing and amount of purchases will be based upon market conditions, securities law limitations and other factors. The share repurchase program does not obligate the Company to acquire any specific number of shares in any period.

There were no shares repurchased under the share repurchase program during the three months ended August 31, 2016.

| Period | Total Number of Shares Purchased | Average Price Paid Per Share (Including Commissions) | Total Number of Shares Purchased as Part of Publically Announced Plans or Programs | Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs |
|----------------------------------|----------------------------------|--|--|--|
| June 1, 2016 – June 30, 2016 | | | | \$ 87,989,491 |
| July 1, 2016 – July 31, 2016 | | | | \$ 87,989,491 |
| August 1, 2016 – August 31, 2016 | | | | \$ 87,989,491 |

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Performance Graph

The following graph demonstrates a comparison of cumulative total returns for the Company's Common Stock, the Dow Jones U.S. Industrial Transportation Index and the Standard & Poor's (S&P) 500 Index. The graph assumes an investment of \$100 on August 31, 2011 in each of the Company's Common Stock and the stocks comprising the indices. Each of the indices assumes that all dividends were reinvested and that the investment was maintained to and including August 31, 2016, the end of the Company's 2016 fiscal year.

The comparisons in this table are required by the SEC, and therefore, are not intended to forecast or be indicative of possible future performance of our Common Stock.

COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN*

Among The Greenbrier Companies, Inc., the S&P 500 Index
and the Dow Jones U.S. Industrial Transportation Index

*\$100 invested on 8/31/11 in stock or index, including reinvestment of dividends.

Fiscal year ending August 31.

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Equity Compensation Plan Information

Equity Compensation Plan Information is hereby incorporated by reference to the Equity Compensation Plan Information table in Registrant's definitive Proxy Statement to be filed pursuant to Regulation 14A, which Proxy Statement is anticipated to be filed with the Securities and Exchange Commission within 120 days after the end of the Registrant's year ended August 31, 2016.

Table of Contents**Item 6. SELECTED FINANCIAL DATA**

| <i>(In thousands, except unit and per share data)</i> | YEARS ENDED AUGUST 31, | | | | |
|--|------------------------|--------------|---------------------------|----------------------------|--------------|
| | 2016 | 2015 | 2014 | 2013 | 2012 |
| Statement of Operations Data | | | | | |
| Revenue: | | | | | |
| Manufacturing | \$ 2,096,331 | \$ 2,136,051 | \$ 1,624,916 | \$ 1,215,734 | \$ 1,253,964 |
| Wheels & Parts | 322,395 | 371,237 | 495,627 | 469,222 | 481,865 |
| Leasing & Services | 260,798 | 97,990 | 83,419 | 71,462 | 71,887 |
| | \$ 2,679,524 | \$ 2,605,278 | \$ 2,203,962 | \$ 1,756,418 | \$ 1,807,716 |
| Earnings from operations | \$ 408,552 | \$ 386,892 | \$ 239,520 | \$ 41,651 | \$ 118,788 |
| Net earnings (loss) attributable to Greenbrier | \$ 183,213 | \$ 192,832 | \$ 111,919 ⁽¹⁾ | \$ (11,048) ⁽²⁾ | \$ 58,708 |
| Basic earnings (loss) per common share attributable to Greenbrier: | \$ 6.28 | \$ 6.85 | \$ 3.97 | \$ (0.41) | \$ 2.21 |
| Diluted earnings (loss) per common share attributable to Greenbrier: | \$ 5.73 | \$ 5.93 | \$ 3.44 | \$ (0.41) | \$ 1.91 |
| Weighted average common shares outstanding: | | | | | |
| Basic | 29,156 | 28,151 | 28,164 | 26,678 | 26,572 |
| Diluted | 32,468 | 33,328 | 34,209 | 26,678 | 33,718 |
| Cash dividends paid per share | \$.81 | \$.60 | \$.15 | \$.00 | \$.00 |
| Balance Sheet Data | | | | | |
| Total assets | \$ 1,837,890 | \$ 1,790,512 | \$ 1,517,168 | \$ 1,289,741 | \$ 1,384,544 |
| Revolving notes and notes payable | \$ 303,969 | \$ 377,317 | \$ 458,172 | \$ 422,098 | \$ 488,834 |
| Total equity | \$ 1,016,827 | \$ 863,489 | \$ 573,721 | \$ 456,827 | \$ 453,645 |
| Other Operating Data | | | | | |
| New railcar units delivered | 20,300 | 21,100 | 16,200 | 11,600 | 15,000 |
| New railcar backlog (units) | 27,500 | 41,300 | 31,500 | 14,400 | 10,700 |
| New railcar backlog (value in millions) | \$ 3,190 | \$ 4,710 | \$ 3,330 | \$ 1,520 | \$ 1,200 |
| Lease fleet: | | | | | |
| Units managed | 264,166 | 259,966 | 237,849 | 223,911 | 219,020 |
| Units owned | 8,949 | 9,324 | 8,550 | 8,581 | 10,841 |
| Cash Flow Data | | | | | |
| Capital expenditures: | | | | | |
| Manufacturing | \$ 51,294 | \$ 84,354 | \$ 55,979 | \$ 37,017 | \$ 33,313 |
| Wheels & Parts | 10,190 | 9,381 | 8,774 | 7,492 | 11,248 |
| Leasing & Services | 77,529 | 12,254 | 5,474 | 16,318 | 73,324 |
| | \$ 139,013 | \$ 105,989 | \$ 70,227 | \$ 60,827 | \$ 117,885 |
| Proceeds from sale of assets | \$ 103,715 | \$ 5,295 | \$ 54,235 | \$ 75,338 | \$ 33,560 |
| Depreciation and amortization: | | | | | |
| Manufacturing | \$ 27,137 | \$ 20,668 | \$ 15,341 | \$ 13,469 | \$ 11,754 |
| Wheels & Parts | 11,971 | 11,748 | 12,582 | 12,843 | 13,265 |
| Leasing & Services | 24,237 | 12,740 | 12,499 | 15,135 | 17,352 |
| | \$ 63,345 | \$ 45,156 | \$ 40,422 | \$ 41,447 | \$ 42,371 |

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- ⁽¹⁾ 2014 includes a non-cash gain on contribution to joint venture of \$13.6 million net of tax and a restructuring charge of \$1.0 million net of tax. The gain related to the Company contributing its Repair operations to GBW.
- ⁽²⁾ 2013 includes a non-cash goodwill impairment charge of \$71.8 million net of tax and a restructuring charge of \$1.8 million net of tax.

Table of Contents**Item 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****Executive Summary**

We operate in four reportable segments: Manufacturing; Wheels & Parts; Leasing & Services; and GBW Joint Venture. Our segments are operationally integrated. The Manufacturing segment, operating from facilities in the United States, Mexico and Poland, produces double-stack intermodal railcars, tank cars, conventional railcars, automotive railcar products and marine vessels. The Wheels & Parts segment performs wheel and axle servicing, as well as production of a variety of parts for the railroad industry in North America. The Leasing & Services segment owns approximately 8,900 railcars (6,600 railcars held as equipment on operating leases, 2,200 held as leased railcars for syndication and 100 held as finished goods inventory) and provides management services for approximately 264,000 railcars for railroads, shippers, carriers, institutional investors and other leasing and transportation companies in North America. The GBW Joint Venture segment provides repair services at over 30 locations across North America, including more than 10 tank car repair and maintenance facilities certified by the Association of American Railroads (AAR). The results of these operations were included as part of Earnings from unconsolidated affiliates as we account for our interest in GBW under the equity method of accounting. Through unconsolidated joint ventures we also produce rail castings, tank heads and other components and have a direct and indirect 35% ownership stake in a railcar manufacturer in Brazil.

Subsequent to August 31, 2016, we reached agreements to restructure certain railcar contracts for favorable financial and other considerations resulting in a reduction of approximately 1,200 units. The adjustment is reflected as of August 31, 2016. Our total manufacturing backlog of railcar units as of August 31, 2016 was approximately 27,500 units with an estimated value of \$3.19 billion, of which 23,500 units are for direct sales, 3,700 units are intended for syndications to third parties with a lease attached and 300 units intended to be placed into our owned lease fleet. Backlog as of August 31, 2015 was approximately 41,300 units with an estimated value of \$4.71 billion. Multi-year supply agreements are a part of rail industry practice. A portion of the orders included in backlog reflects an assumed product mix. Under terms of the orders, the exact mix will be determined in the future, which may impact the dollar amount of backlog. Marine backlog as of August 31, 2016 was \$114 million compared to \$52 million as of August 31, 2015.

Our backlog of railcar units and marine vessels is not necessarily indicative of future results of operations. Certain orders in backlog are subject to customary documentation and completion of terms. Customer orders contain terms and conditions customary in the industry. Customers may attempt to cancel or modify orders in backlog. Historically, little variation has been experienced between the quantity ordered and the quantity actually delivered, though the timing of deliveries has been modified from time to time. Backlog as of August 31, 2016 includes an aggregate of 3,800 covered hopper railcars for use in energy related sand transportation; customers may seek to cancel, settle or modify a portion of these railcars. We cannot guarantee that our reported railcar backlog will convert to revenue in any particular period, if at all.

In September 2015, we purchased a portfolio of 3,885 railcars from a related third party for approximately \$148.0 million plus a \$1.0 million fee with the intent to resell the railcars and underlying attached leases to third parties in the short-term. During the year ended August 31, 2016, we sold to third parties 3,406 of these railcars with the underlying leases attached for \$167.2 million. We recognized revenue on 3,017 of these railcars for \$159.4 million and deferred revenue recognition on 389 of these railcars for \$7.8 million due to our continuing involvement. The gross proceeds from the sale of these railcars with leases attached were recorded as revenue and the cost of purchasing these railcars was recorded in cost of revenue within our Leasing & Services segment. The remaining 479 railcars are anticipated to be sold or disposed of in the next year.

In August 2016 we announced that we closed on the acquisition of a 19.5% ownership interest for \$10 million in Amsted-Maxion Fundição e Equipamentos Ferroviários S.A. (Amsted-Maxion Cruzeiro), a manufacturer of castings and components for railcars and other heavy equipment. Amsted-Maxion Cruzeiro is also the co-owner with us of Amsted-Maxion Equipamentos E Serviços Ferroviários S.A. (Greenbrier-Maxion), a railcar manufacturer in Brazil. We own 19.5% of Greenbrier-Maxion while Amsted-Maxion Cruzeiro owns 80.5%.

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After our investment in Amsted-Maxion Cruzeiro we now, directly and indirectly, own approximately 35% of Greenbrier-Maxion. As part of this investment, we have an option, subject to certain conditions, to acquire an additional 10% interest in Amsted-Maxion Cruzeiro. Our option expires on October 20, 2017. In 2015, as part of our initial investment in Greenbrier-Maxion, we secured an option to acquire an additional 40.5% direct ownership interest in Greenbrier-Maxion. The option is exercisable until December 30, 2017 and has been modified as part of the August 2016 transaction to allow us to purchase a direct ownership interest in Greenbrier-Maxion in an amount between 30.6% and 40.5%, with the option exercise price adjusted in proportion to the ownership interest obtained.

In October 2016, we entered into an agreement with Astra Rail Management GmbH (Astra) to form a new company, Greenbrier-Astra Rail, which will create an end-to-end, Europe-based freight railcar manufacturing, engineering and repair business. The combined enterprise will be formed between our European operations headquartered in Swidnica, Poland and Astra Rail based in Germany and Arad, Romania. It will be led by an experienced Europe-based management team from both companies. Greenbrier-Astra Rail will offer manufacturing and service capability in Europe with greater scale and efficiency for current customers. It also provides the opportunity to pursue growth in railcar markets in the GCC nations and Eurasia. Greenbrier-Astra Rail will be controlled by us with an approximate 75% interest. As partial consideration for our majority interest, we will pay Astra Rail 30 million at closing and 30 million 12 months after closing. We will provide a guarantee in connection with the 30 million to be paid to Astra twelve months after the closing. Closing of the transaction is contingent on, among other conditions, achieving antitrust approval in certain EU countries.

Table of Contents**Overview**

Revenue, cost of revenue, margin and operating profit presented below, include amounts from external parties and exclude intersegment activity that is eliminated in consolidation.

| <i>(In thousands)</i> | 2016 | 2015 | 2014 |
|--|--------------|--------------|--------------|
| Revenue: | | | |
| Manufacturing | \$ 2,096,331 | \$ 2,136,051 | \$ 1,624,916 |
| Wheels & Parts | 322,395 | 371,237 | 495,627 |
| Leasing & Services | 260,798 | 97,990 | 83,419 |
| | 2,679,524 | 2,605,278 | 2,203,962 |
| Cost of revenue: | | | |
| Manufacturing | 1,630,554 | 1,691,414 | 1,374,008 |
| Wheels & Parts | 293,751 | 334,680 | 463,938 |
| Leasing & Services | 203,782 | 41,831 | 43,796 |
| | 2,128,087 | 2,067,925 | 1,881,742 |
| Margin: | | | |
| Manufacturing | 465,777 | 444,637 | 250,908 |
| Wheels & Parts | 28,644 | 36,557 | 31,689 |
| Leasing & Services | 57,016 | 56,159 | 39,623 |
| | 551,437 | 537,353 | 322,220 |
| Selling and administrative | 158,681 | 151,791 | 125,270 |
| Net gain on disposition of equipment | (15,796) | (1,330) | (15,039) |
| Gain on contribution to joint venture | | | (29,006) |
| Restructuring charges | | | 1,475 |
| Earnings from operations | 408,552 | 386,892 | 239,520 |
| Interest and foreign exchange | 13,502 | 11,179 | 18,695 |
| Earnings before income tax and earnings from unconsolidated affiliates | 395,050 | 375,713 | 220,825 |
| Income tax expense | (112,322) | (112,160) | (72,401) |
| Earnings before earnings from unconsolidated affiliates | 282,728 | 263,553 | 148,424 |
| Earnings from unconsolidated affiliates | 2,096 | 1,756 | 1,355 |
| Net earnings | 284,824 | 265,309 | 149,779 |
| Net earnings attributable to noncontrolling interest | (101,611) | (72,477) | (37,860) |
| Net earnings attributable to Greenbrier | \$ 183,213 | \$ 192,832 | \$ 111,919 |
| Diluted earnings per common share | \$ 5.73 | \$ 5.93 | \$ 3.44 |

Performance for our segments is evaluated based on operating profit. Corporate includes selling and administrative costs not directly related to goods and services and certain costs that are intertwined among segments due to our integrated business model. Management does not allocate Interest and foreign exchange or Income tax expense for either external or internal reporting purposes.

| <i>(In thousands)</i> | 2016 | 2015 | 2014 |
|--------------------------|-------------|-------------|-------------|
| Operating profit: | | | |

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| | | | |
|--------------------|------------|------------|------------|
| Manufacturing | \$ 415,094 | \$ 396,921 | \$ 202,555 |
| Wheels & Parts | 19,948 | 27,563 | 40,597 |
| Leasing & Services | 51,723 | 41,887 | 41,055 |
| Corporate | (78,213) | (79,479) | (44,687) |
| | \$ 408,552 | \$ 386,892 | \$ 239,520 |

Table of Contents**Consolidated Results**

| <i>(In thousands)</i> | Years ended August 31, | | % | |
|---|------------------------|--------------|------------------------|--------|
| | 2016 | 2015 | Increase (Decrease) | Change |
| Revenue | \$ 2,679,524 | \$ 2,605,278 | \$ 74,246 | 2.8% |
| Cost of revenue | \$ 2,128,087 | \$ 2,067,925 | \$ 60,162 | 2.9% |
| Margin (%) | 20.6% | 20.6% | 0.0% | * |
| Net earnings attributable to Greenbrier | \$ 183,213 | \$ 192,832 | \$ (9,619) | (5.0%) |

* Not meaningful

Through our integrated business model, we provide a broad range of custom products and services in each of our segments which have various average selling prices and margins. The demand for and mix of products and services delivered changes from year to year which causes fluctuations in our results of operations.

The 2.8% increase in revenue for the year ended August 31, 2016 as compared to the year ended August 31, 2015 was primarily due to a 166.1% increase in Leasing & Services revenue which was primarily the result of the sale of railcars that we purchased from a related third party. This was partially offset by a 1.9% decrease in Manufacturing revenue due to a 3.8% decrease in the volume of railcar deliveries. However, the manufacturing product mix in the current period had a higher average selling price as compared to the prior comparable period. In addition, the increase in Leasing & Services revenue was partially offset by a 13.2% decrease in Wheels & Parts revenue as a result of lower wheel set, component and parts volumes due to a decrease in demand and a decrease in scrap metal volume and pricing.

The 2.9% increase in cost of revenue for the year ended August 31, 2016 as compared to the year ended August 31, 2015 was due to a 387.2% increase in Leasing & Services cost of revenue which was primarily the result of costs associated with the sale of railcars that we purchased from a related third party. This was partially offset by a 3.6% decrease in Manufacturing cost of revenue. The decrease in Manufacturing cost of revenue was due to a decrease of 3.8% in the volume of railcar deliveries partially offset by a mix which had a higher average labor and material content and improved production efficiencies. In addition, the increase in Leasing & Services cost of revenue was partially offset by a 12.2% decrease in Wheels & Parts cost of revenue as a result of lower wheel set, component and parts costs associated with decreased volumes.

Margin as a percentage of revenue was 20.6% for both the years ended August 31, 2016 and 2015. The overall margin as a percentage of revenue was positively impacted by an increase in Manufacturing margin to 22.2% from 20.8% primarily due to a change in product mix and improved production efficiencies. This was offset by a decrease in Leasing & Services margin to 21.9% from 57.3% primarily as a result of a lower margin percentage on the syndication, or sale, of railcars purchased from a related third party. In addition, the increase in Manufacturing margin was offset by a decrease in Wheels & Parts margin to 8.9% from 9.8% due to lower wheel set and component volumes and a decrease in scrap metal pricing.

Net earnings attributable to Greenbrier is impacted by our operating activities and noncontrolling interest due to a 50/50 joint venture at one of our Mexican railcar manufacturing facilities that we consolidate for financial reporting purposes. This joint venture operated at higher volumes and margins in 2016 which resulted in higher Net earnings attributable to noncontrolling interest which was the primary reason for the \$9.6 million decrease in Net earnings attributable to Greenbrier for the year ended August 31, 2016 as compared to the year ended August 31, 2015. This was partially offset by an increase in Net gain on disposition of equipment as compared to the prior year.

| <i>(In thousands)</i> | Years ended August 31, | | % | |
|---|------------------------|--------------|------------------------|--------|
| | 2015 | 2014 | Increase (Decrease) | Change |
| Revenue | \$ 2,605,278 | \$ 2,203,962 | \$ 401,316 | 18.2% |
| Cost of revenue | \$ 2,067,925 | \$ 1,881,742 | \$ 186,183 | 9.9% |
| Margin (%) | 20.6% | 14.6% | 6.0% | * |
| Net earnings attributable to Greenbrier | \$ 192,832 | \$ 111,919 | \$ 80,913 | 72.3% |

* Not meaningful

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The 18.2% increase in revenue for the year ended August 31, 2015 as compared to the year ended August 31, 2014 was primarily due to a 31.5% increase in Manufacturing revenue. The increase in Manufacturing revenue was primarily due to a 30% increase in the volume of deliveries in response to strong demand in the freight car market and an increase in marine activity as compared to the prior comparable period. The increase in revenue also included a 17.5% increase in Leasing & Services revenue which was primarily the result of a higher average volume of newly built rent-producing railcars. These were partially offset by a 25.1% decrease in Wheels & Parts revenue primarily due to 2015 excluding repair revenue as a result of contributing our Repair business to GBW, while 2014 included repair revenue through July 18, 2014.

The 9.9% increase in cost of revenue for the year ended August 31, 2015 as compared to the year ended August 31, 2014 was primarily due to a 23.1% increase in Manufacturing cost of revenue. The increase in Manufacturing cost of revenue was primarily due to an increase of 30% in the volume of railcar deliveries with a mix which had a lower average labor and material content. This was partially offset by improved production efficiencies and favorable foreign currency exchange rates. The increase in Manufacturing cost of revenue was partially offset by a 27.9% decrease in Wheels & Parts cost of revenue primarily due to 2015 excluding repair cost of revenue as a result of contributing our Repair business to GBW, while 2014 included repair cost of revenue through July 18, 2014. In addition, the increase in Manufacturing cost of revenue was partially offset by a 4.5% decrease in Leasing & Services cost of revenue. This was primarily due to lower transportation costs and a decrease in the cost of revenue associated with purchased railcars that were sold.

Margin as a percentage of revenue was 20.6% and 14.6% for the years ended August 31, 2015 and 2014, respectively. The overall 6.0% increase in margin percentage was due to an increase in margin in all three of our consolidated segments. Manufacturing margin increased to 20.8% for 2015 compared to 15.4% for 2014 primarily due to favorable pricing, improved production efficiencies and favorable foreign currency exchange rates. In addition, 2015 had higher volumes of new railcar sales with leases attached which typically result in higher sales prices and margins. Wheels & Parts margin increased to 9.8% for 2015 compared to 6.4% for 2014, primarily as the result of 2015 excluding the results of our Repair operations which in the recent past have had lower margins as a percentage of revenue than the rest of the segment. Leasing & Services margin increased to 57.3% for 2015 compared to 47.5% for 2014 which was primarily the result of a higher average volume of newly built rent-producing railcars as compared to the prior year and lower transportation costs.

The \$80.9 million increase in Net earnings attributable to Greenbrier for the year ended August 31, 2015 as compared to the year ended August 31, 2014 was primarily attributable to an increase in margin. This was partially offset by an increase in selling and administrative expense as compared to the prior year and a Gain on contribution to joint venture in 2014.

Manufacturing Segment

| | Years ended August 31, | | | 2016 vs 2015 | | 2015 vs 2014 | |
|-----------------------|------------------------|--------------|--------------|------------------------|-------------|------------------------|-------------|
| | 2016 | 2015 | 2014 | Increase (Decrease) | Change % | Increase (Decrease) | Change % |
| <i>(In thousands)</i> | | | | | | | |
| Revenue | \$ 2,096,331 | \$ 2,136,051 | \$ 1,624,916 | \$ (39,720) | (1.9%) | \$ 511,135 | 31.5% |
| Cost of revenue | \$ 1,630,554 | \$ 1,691,414 | \$ 1,374,008 | \$ (60,860) | (3.6%) | \$ 317,406 | 23.1% |
| Margin (%) | 22.2% | 20.8% | 15.4% | 1.4% | * | 5.4% | * |
| Operating profit (\$) | \$ 415,094 | \$ 396,921 | \$ 202,555 | \$ 18,173 | 4.6% | \$ 194,366 | 96.0% |
| Operating profit (%) | 19.8% | 18.6% | 12.5% | 1.2% | * | 6.1% | * |
| Deliveries | 20,300 | 21,100 | 16,200 | (800) | (3.8%) | 4,900 | 30.2% |

* Not meaningful

Manufacturing revenue was \$2.096 billion, \$2.136 billion and \$1.625 billion for the years ended August 31, 2016, 2015 and 2014. Manufacturing revenue decreased \$39.7 million or 1.9% in 2016 compared to 2015 primarily due to a 3.8% decrease in the volume of railcar deliveries. However, the manufacturing product mix in the current period had a higher average selling price as compared to the prior comparable period. Manufacturing revenue increased \$511.1 million or 31.5% in 2015 compared to 2014 primarily due to a 30% increase in the volume of deliveries in response to strong demand in the freight car market and an increase in marine activity as compared to the prior comparable period.

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Manufacturing cost of revenue was \$1.631 billion, \$1.691 billion and \$1.374 billion for the years ended August 31, 2016, 2015 and 2014. Cost of revenue decreased \$60.9 million or 3.6% in 2016 compared to 2015 due to a decrease of 3.8% in the volume of railcar deliveries. This was partially offset by a mix which had a higher average labor and material content and improved production efficiencies. Cost of revenue increased \$317.4 million or 23.1% in 2015 compared to 2014 primarily due to an increase of 30% in the volume of railcar deliveries with a mix that had a lower average labor and material content. This was partially offset by improved production efficiencies and favorable foreign currency exchange rates. In addition, the increase in Manufacturing cost of revenue was attributed to an increase in marine activity as compared to the prior comparable period.

Manufacturing margin as a percentage of revenue was 22.2% in 2016, 20.8% in 2015 and 15.4% in 2014. The 1.4% increase in margin in 2016 compared to 2015 was primarily due to a change in product mix and improved production efficiencies. This was partially offset by lower volumes of new railcar sales with leases attached which typically result in higher sales prices and margins. The 5.4% increase in margin in 2015 compared to 2014 was primarily due to favorable pricing, improved production efficiencies and favorable foreign currency exchange rates. In addition, 2015 had higher volumes of new railcar sales with leases attached which typically result in higher sales prices and margins.

Manufacturing operating profit was \$415.1 million and 19.8% of revenue for the year ended August 31, 2016, \$396.9 million and 18.6% of revenue for the year ended August 31, 2015 and \$202.6 million and 12.5% of revenue for the year ended August 31, 2014. The \$18.2 million or 4.6% increase in operating profit in 2016 compared to 2015 and \$194.4 million or 96.0% increase in operating profit in 2015 compared to 2014 were both primarily attributed to higher margins.

Wheels & Parts Segment

| | Years ended August 31, | | | 2016 vs 2015 | | 2015 vs 2014 | |
|-----------------------|------------------------|------------|------------|------------------------|-------------|------------------------|-------------|
| | 2016 | 2015 | 2014 | Increase (Decrease) | % Change | Increase (Decrease) | % Change |
| <i>(In thousands)</i> | | | | | | | |
| Revenue | \$ 322,395 | \$ 371,237 | \$ 495,627 | \$ (48,842) | (13.2%) | \$ (124,390) | (25.1%) |
| Cost of revenue | \$ 293,751 | \$ 334,680 | \$ 463,938 | \$ (40,929) | (12.2%) | \$ (129,258) | (27.9%) |
| Margin (%) | 8.9% | 9.8% | 6.4% | (0.9%) | * | 3.4% | * |
| Operating profit (\$) | \$ 19,948 | \$ 27,563 | \$ 40,597 | \$ (7,615) | (27.6%) | \$ (13,034) | (32.1%) |
| Operating profit (%) | 6.2% | 7.4% | 8.2% | (1.2%) | * | (0.8%) | * |

* Not meaningful

Wheels & Parts revenue was \$322.4 million, \$371.2 million and \$495.6 million for the years ended August 31, 2016, 2015 and 2014. The \$48.8 million or 13.2% decrease in revenue in 2016 compared to 2015 was primarily a result of lower wheel set, component and parts volumes due to a decrease in demand and a decrease in scrap metal volume and pricing. The \$124.4 million or 25.1% decrease in revenue in 2015 compared to 2014 was primarily due to 2015 excluding repair revenue as a result of contributing our Repair business to GBW, while 2014 included \$138.4 million of repair revenue. The decrease in revenue was also attributed to a decrease in scrap metal pricing.

Wheels & Parts cost of revenue was \$293.8 million, \$334.7 million and \$463.9 million for the years ended August 31, 2016, 2015 and 2014. Cost of revenue decreased \$40.9 million or 12.2% in 2016 compared to 2015 primarily due to lower wheel set, component and parts costs associated with decreased volumes. Cost of revenue decreased \$129.3 million or 27.9% in 2015 compared to 2014 primarily due to 2015 excluding repair cost of revenue as a result of contributing our Repair business to GBW, while 2014 included repair cost of revenue.

Wheels & Parts margin as a percentage of revenue was 8.9% for 2016, 9.8% for 2015 and 6.4% for 2014. The 0.9% decrease in margin in 2016 compared to 2015 was due to lower wheel set and component volumes and a decrease in scrap metal pricing. These were partially offset by a more favorable parts product mix. The 3.4% increase in margin as a percentage of revenue in 2015 compared to 2014 was primarily the result of 2015 excluding the results of our Repair operations which in the recent past have had lower margins as a percentage of revenue than the rest of the segment. In addition, the increase in margin was due to a favorable change in wheel pricing and a more favorable parts product mix. These were partially offset by the adverse effect of a decline in scrap metal pricing on wheel margins during 2015.

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Wheels & Parts operating profit was \$19.9 million and 6.2% of revenue for the year ended August 31, 2016, \$27.6 million and 7.4% of revenue for the year ended August 31, 2015 and \$40.6 million and 8.2% of revenue for the year ended August 31, 2014. The \$7.6 million or 27.6% decrease in operating profit in 2016 compared to 2015 was primarily attributable to a decrease in margin due to a decrease in volumes partially offset by \$2.3 million in insurance proceeds received in excess of net book value on assets destroyed in a fire at a Wheels & Parts facility in 2015. The \$13.0 million or 32.1% decrease in operating profit in 2015 compared to 2014 was primarily attributed to a \$29.0 million pre-tax non-cash gain on contribution to joint venture in 2014. This was partially offset by repair selling and administrative expense being excluded in 2015 as a result of contributing our Repair business to GBW and an increase in margin in the current year.

Leasing & Services Segment

| | Years ended August 31, | | | 2016 vs 2015 | | 2015 vs 2014 | |
|-----------------------|------------------------|-----------|-----------|------------------------|-------------|------------------------|-------------|
| | 2016 | 2015 | 2014 | Increase (Decrease) | % Change | Increase (Decrease) | % Change |
| <i>(In thousands)</i> | | | | | | | |
| Revenue | \$ 260,798 | \$ 97,990 | \$ 83,419 | \$ 162,808 | 166.1% | \$ 14,571 | 17.5% |
| Cost of revenue | \$ 203,782 | \$ 41,831 | \$ 43,796 | \$ 161,951 | 387.2% | \$ (1,965) | (4.5%) |
| Margin (%) | 21.9% | 57.3% | 47.5% | (35.4%) | * | 9.8% | * |
| Operating profit (\$) | \$ 51,723 | \$ 41,887 | \$ 41,055 | \$ 9,836 | 23.5% | \$ 832 | 2.0% |
| Operating profit (%) | 19.8% | 42.7% | 49.2% | (22.9%) | * | (6.5%) | * |

* Not meaningful

Leasing & Services revenue was \$260.8 million, \$98.0 million and \$83.4 million for the years ended August 31, 2016, 2015 and 2014. The \$162.8 million or 166.1% increase in revenue in 2016 compared to 2015 was primarily the result of the sale of railcars for \$159.4 million that we purchased from a related third party with the intent to resell them and a 14% increase in management services revenue due to the addition of new management service agreements. This was partially offset by a lower average volume of newly built rent-producing railcars which are held short term and classified as Leased railcars for syndication on our Consolidated Balance Sheet. The \$14.6 million or 17.5% increase in revenue in 2015 compared to 2014 was primarily the result of a higher average volume of newly built rent-producing railcars. The increase in revenue was also attributed to a 29% increase in management services revenue due to the addition of new management service agreements.

Leasing & Services cost of revenue was \$203.8 million, \$41.8 million and \$43.8 million for the years ended August 31, 2016, 2015 and 2014. Cost of revenue increased \$162.0 million or 387.2% in 2016 compared to 2015 primarily due to costs associated with the sale of railcars that we purchased from a related third party. Cost of revenue decreased \$2.0 million or 4.5% in 2015 compared to 2014 primarily due to lower transportation costs and a decrease in the cost of revenue associated with purchased railcars that were sold.

Leasing & Services margin as a percentage of revenue was 21.9% in 2016 compared to 57.3% in 2015 and 47.5% in 2014. The 35.4% decrease in 2016 compared to 2015 was primarily as a result of a lower margin percentage on the syndication, or sale, of railcars purchased from a related third party and a lower average volume of newly built rent-producing railcars. The 9.8% increase in 2015 compared to 2014 was primarily the result of a higher average volume of rent-producing leased railcars for syndication as compared to the prior year and lower transportation costs.

Leasing & Services operating profit was \$51.7 million and 19.8% of revenue for the year ended August 31, 2016, \$41.9 million and 42.7% of revenue for the year ended August 31, 2015 and \$41.1 million and 49.2% of revenue for the year ended August 31, 2014. The \$9.8 million or 23.5% increase in operating profit in 2016 compared to 2015 was primarily attributed to an \$11.3 million increase in net gain on disposition of equipment and profit from the sale of railcars that we purchased from a related third party. This was partially offset by accelerated depreciation and amortization due to changes in the estimated useful lives of certain assets. The decrease in operating profit as a percentage of revenue in 2016 compared to 2015 was primarily as a result of a lower margin percentage on the syndication of railcars purchased from a related third party. The \$0.8 million or 2.0% increase in operating profit in 2015 compared to 2014 was primarily attributed to a \$16.5 million increase in gross margin. This was partially offset by a \$12.8 million decrease in Net gain on disposition of equipment.

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The percentage of owned units on lease excluding newly manufactured railcars not yet on lease and a recent railcar portfolio acquisition was 91.0% at August 31, 2016 compared to 98.6% at August 31, 2015.

GBW Joint Venture Segment

GBW, an unconsolidated 50/50 joint venture, generated total revenue of \$373.5 million and \$349.8 million for the year ended August 31, 2016 and 2015, respectively. The increase in revenue of \$23.7 million was primarily due an increase in volume and favorable pricing.

GBW margin as a percentage of revenue for the year ended August 31, 2016 was 9.1% compared to 6.2% for the year ended August 31, 2015. The increase was primarily attributed to an increase in labor efficiencies in the current year.

To reflect our 50% share of GBW's results, we recorded earnings of \$3.2 million and \$0.8 million in Earnings from unconsolidated affiliates associated with GBW for the year ended August 31, 2016 and 2015, respectively.

Selling and Administrative

| | Years ended August 31, | | | 2016 vs 2015 | | 2015 vs 2014 | |
|----------------------------|------------------------|------------|------------|------------------------|-------------|------------------------|-------------|
| | 2016 | 2015 | 2014 | Increase (Decrease) | Change % | Increase (Decrease) | Change % |
| <i>(In thousands)</i> | | | | | | | |
| Selling and Administrative | \$ 158,681 | \$ 151,791 | \$ 125,270 | \$ 6,890 | 4.5% | \$ 26,521 | 21.2% |

Selling and administrative expense was \$158.7 million, or 5.9% of revenue for the year ended August 31, 2016, \$151.8 million, or 5.8% of revenue for the year ended August 31, 2015 and \$125.3 million, or 5.7% of revenue for the year ended August 31, 2014.

The \$6.9 million increase in 2016 compared to 2015 was primarily attributed to a \$13.7 million increase in employee-related costs including long-term and short-term incentive compensation, additional headcount and employee separation costs. The increase was also attributed to a \$5.1 million increase in consulting costs primarily associated with strategic business development and IT initiatives. These were partially offset by costs incurred in the prior year which included \$6.2 million in professional fees and other transaction costs in connection with a potential acquisition, \$2.4 million in costs associated with our advocacy of new tank car regulations and \$1.9 million in legal, accounting and consulting costs associated with the investigation at our Concarril manufacturing facility.

The \$26.5 million increase in 2015 compared to 2014 was primarily attributed to a \$14.6 million increase in employee-related costs including long-term and short-term incentive compensation and additional headcount based on current levels of activity, \$6.2 million in professional fees and other transaction costs in 2015 in connection with a potential acquisition, a \$3.4 million increase in travel and entertainment expenses primarily for new business development, \$2.4 million in costs in 2015 associated with our advocacy of new tank car regulations and \$1.9 million in legal, accounting and consulting costs in 2015 associated with the investigation at our Concarril manufacturing facility. These were partially offset by our Repair operations being excluded from 2015.

Net Gain on Disposition of Equipment

Net gain on disposition of equipment was \$15.8 million, \$1.3 million and \$15.0 million for the years ended August 31, 2016, 2015 and 2014. Net gain on disposition of equipment is primarily composed of the sale of assets from our lease fleet (Equipment on operating leases, net) that are periodically sold in the normal course of business in order to take advantage of market conditions and to manage risk and liquidity, along with the disposition of property, plant and equipment.

The gain for the year ended August 31, 2016 primarily consisted of \$12.0 million in gains realized on the disposition of leased assets and property, plant and equipment and \$3.5 million in insurance proceeds received in

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excess of net book value on assets destroyed in fires which occurred in 2015 at a manufacturing facility and a Wheels & Parts facility. All of the gain for the year ended August 31, 2015 was realized on the disposition of leased assets. The gain for the year ended August 31, 2014 consists of \$14.6 million in gains realized on the disposition of leased assets and \$0.4 million on the disposition of equipment related to our restructuring plan to sell or close certain wheels, repair and parts facilities to enhance margins and improve capital efficiency.

Gain on Contribution to Joint Venture

On July 18, 2014, we and Watco contributed our respective Repair operations to a newly formed entity, GBW, an unconsolidated 50/50 joint venture with Watco. As a result of the formation of GBW, we recognized a pre-tax non-cash gain of \$29.0 million for the year ended August 31, 2014 which was calculated as the fair value of our 50% share in GBW, less cash and intangibles contributed to GBW and an allocation in goodwill attributed to the Repair business contributed to GBW.

Restructuring Charges

During 2013, we implemented a restructuring plan to sell or close certain wheels, repair and parts facilities to enhance margins and improve capital efficiency. Restructuring charges related to this plan totaled \$1.5 million for the year ended August 31, 2014 and consisted of employee related termination costs, contract termination expenses and other costs. As of August 31, 2016, all amounts related to this plan have been paid.

Interest and Foreign Exchange

Interest and foreign exchange expense was composed of the following:

| <i>(In thousands)</i> | Years ended August 31, | | | Increase (decrease) | |
|--------------------------------|------------------------|-----------|-----------|---------------------|--------------|
| | 2016 | 2015 | 2014 | 2016 vs 2015 | 2015 vs 2014 |
| Interest and foreign exchange: | | | | | |
| Interest and other expense | \$ 17,268 | \$ 18,975 | \$ 18,306 | \$ (1,707) | \$ 669 |
| Foreign exchange gain | (3,766) | (7,796) | 389 | 4,030 | (8,185) |
| | \$ 13,502 | \$ 11,179 | \$ 18,695 | \$ 2,323 | \$ (7,516) |

Interest and other expense increased \$2.3 million in 2016 from 2015 primarily due a \$4.0 million decrease in foreign exchange gain as compared to the prior comparable period primarily attributed to the change in the Mexican Peso relative to the U.S. Dollar. This was partially offset by a \$1.7 million decrease in interest expense as a result of lower average borrowings as compared to the prior year.

Interest and other expense decreased \$7.5 million in 2015 from 2014 primarily due to the strengthening of the U.S. Dollar against the Mexican Peso which resulted in a \$7.8 million foreign exchange gain in 2015 compared to a \$0.4 million foreign exchange loss in 2014. This was partially offset by an increase of \$0.7 million due to higher interest expense on increased levels of average borrowings as compared to the prior comparable period.

Income Tax

In 2016 our tax expense was \$112.3 million on \$395.0 million of pre-tax earnings for an effective tax rate of 28.4%. In 2015 our tax expense was \$112.2 million on \$375.7 million of pre-tax earnings for an effective tax rate of 29.9%. In 2014 our tax expense was \$72.4 million on \$220.8 million of pre-tax earnings for an effective tax rate of 32.8%. The 2014 rate would have been 29.5% had nondeductible goodwill not reduced the gain recognized on the contribution of our Repair operations to GBW.

Even without regard to any changes caused by nondeductible goodwill, our tax rate can fluctuate year-to-year due to changes in the mix of foreign and domestic pre-tax earnings. It can also fluctuate with changes in the proportion of pre-tax earnings attributable to our Mexican railcar manufacturing joint venture. This is because the joint venture is predominantly treated as a partnership for tax purposes and, as a result, the partnership's entire pre-tax earnings are included in Earnings before income taxes and earnings from unconsolidated affiliates, whereas only our 50% share of the tax is included in Income tax expense.

Table of Contents**Earnings from Unconsolidated Affiliates**

Earnings from unconsolidated affiliates was \$2.1 million, \$1.8 million and \$1.4 million for the years ended August 31, 2016, 2015 and 2014. Earnings from unconsolidated affiliates primarily included our share of after-tax results from GBW including eliminations associated with GBW transactions with other Greenbrier entities and our share of after-tax results from our castings joint ventures. In addition, the year ended August 31, 2016 included our share of after-tax results from our tank head joint venture and our share of after-tax results from our ownership stake in a railcar manufacturer in Brazil.

Net Earnings Attributable to Noncontrolling Interest

The years ended August 31, 2016, 2015 and 2014 include net earnings attributable to noncontrolling interest of \$101.6 million, \$72.5 million and \$37.9 million which primarily represents our joint venture partner's share in the results of operations of our Mexican railcar manufacturing joint venture, adjusted for intercompany sales. The increase of \$29.1 million in 2016 compared to 2015 is primarily a result of the joint venture operating at higher production rates with higher margins. The increase of \$34.6 million in 2015 compared to 2014 is primarily a result of operating at higher production rates and improved efficiencies.

Liquidity and Capital Resources

| <i>(In thousands)</i> | Years Ended August 31, | | |
|---|-------------------------------|--------------------|------------------|
| | 2016 | 2015 | 2014 |
| Net cash provided by operating activities | \$ 331,670 | \$ 192,333 | \$ 135,907 |
| Net cash used in investing activities | (55,708) | (131,531) | (30,078) |
| Net cash used in financing activities | (221,915) | (62,824) | (17,561) |
| Effect of exchange rate changes | (4,298) | (9,964) | (787) |
| Net (decrease) increase in cash and cash equivalents | \$ 49,749 | \$ (11,986) | \$ 87,481 |

We have been financed through cash generated from operations and borrowings. At August 31, 2016 cash and cash equivalents was \$222.7 million, an increase of \$49.8 million from \$172.9 million at the prior year end.

Cash provided by operating activities was \$331.7 million, \$192.3 million and \$135.9 million for the years ended August 31, 2016, 2015 and 2014. The increase in 2016 compared to 2015 was primarily due to higher earnings, a net change in working capital and a decrease in leased railcars for syndication. The increase in 2015 compared to 2014 was primarily due to higher earnings and a net change in working capital needs partially offset by an increase in leased railcars for syndication due to higher levels of production moving through our lease syndication model.

Cash used in investing activities primarily related to capital expenditures net of proceeds from the sale of assets. Cash used in investing activities was \$55.7 million, \$131.5 million and \$30.1 million for the years ended August 31, 2016, 2015 and 2014. The change in 2016 compared to 2015 was primarily attributable to higher proceeds from the sale of assets and higher capital expenditures for the year ended August 31, 2016 compared to the prior year. The change in 2015 compared to 2014 was primarily attributed to lower proceeds from the sale of assets and higher capital expenditures for the year ended August 31, 2015 compared to the prior year.

Capital expenditures totaled \$139.0 million, \$106.0 million and \$70.2 million for the years ended August 31, 2016, 2015 and 2014. Proceeds from the sale of assets, which primarily related to sales of railcars from our lease fleet within Leasing & Services, were approximately \$103.7 million, \$5.3 million and \$54.2 million for the years ended August 31, 2016, 2015 and 2014. Proceeds from the sale of assets for the year ended August 31, 2016 included approximately \$44.1 million of equipment that was sold pursuant to sale and leaseback transactions.

Approximately \$51.3 million, \$84.4 million and \$56.0 million of capital expenditures for the years ended August 31, 2016, 2015 and 2014 were attributable to Manufacturing operations. Capital expenditures for Manufacturing are expected to be approximately \$45 million in 2017 and primarily relate to enhancements of our existing manufacturing facilities.

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Approximately \$77.5 million, \$12.2 million and \$5.4 million for the years ended August 31, 2016, 2015 and 2014 of capital expenditures were attributable to Leasing & Services operations and corporate. Leasing & Services and corporate capital expenditures for 2017 are expected to be approximately \$13 million. Proceeds from sales of leased railcar equipment are expected to be nominal for 2017. Assets from our lease fleet are periodically sold in the normal course of business in order to take advantage of market conditions and to manage risk and liquidity.

Approximately \$10.2 million, \$9.4 million and \$8.8 million for the years ended August 31, 2016, 2015 and 2014 of capital expenditures were attributable to Wheels & Parts operations. Capital expenditures for Wheels & Parts are expected to be approximately \$13 million in 2017 for maintenance and enhancements of our existing facilities.

Cash used in financing activities was \$221.9 million, \$62.8 million and \$17.6 million for the years ended August 31, 2016, 2015 and 2014. The change in cash used in financing activities in 2016 compared to 2015 was primarily attributed to a net repayment of debt, an increase in cash distributions to our joint venture partner and an increase in dividends. These were partially offset by a decrease in the repurchase of our stock. The change in cash used in financing activities in 2015 compared to 2014 was primarily attributed to a \$36.4 million increase in the repurchase of stock, a \$15.3 million increase in cash distributions to our joint venture partner and a \$12.4 million increase in dividend payments.

A quarterly dividend of \$0.21 per share was declared on October 20, 2016.

During the year ended August 31, 2016, we retired the remaining \$14.9 million of outstanding convertible senior notes due 2026 of which \$14.0 million was retired pursuant to a scheduled put option and \$0.9 million was retired pursuant to our call option.

Since October 2013, the Board of Directors has authorized our company to repurchase in aggregate up to \$225 million of our common stock. During the year ended August 31, 2016, we purchased a total of 1,054,687 shares for approximately \$32.4 million. As of August 31, 2016 we had cumulatively repurchased 3,206,226 shares for approximately \$137.0 million and had \$88.0 million available under the share repurchase program which has an expiration date of January 1, 2018.

In March 2014, we refinanced approximately \$125 million of existing senior term debt, due in March 2014 and May 2015, secured by a pool of leased railcars with new 6-year \$200 million senior term debt also secured by a pool of leased railcars and cash.

Senior secured credit facilities, consisting of three components, aggregated to \$615.6 million as of August 31, 2016. We had an aggregate of \$350.4 million available to draw down under committed credit facilities as of August 31, 2016. This amount consists of \$284.8 million available on the North American credit facility, \$15.6 million on the European credit facilities and \$50.0 million on the Mexican railcar manufacturing joint venture credit facilities.

As of August 31, 2016, a \$550.0 million revolving line of credit, maturing October 2020, secured by substantially all of our assets in the U.S. not otherwise pledged as security for term loans, was available to provide working capital and interim financing of equipment, principally for the U.S. and Mexican operations. Advances under this facility bear interest at LIBOR plus 1.75% or Prime plus 0.75% depending on the type of borrowing. Available borrowings under the credit facility are generally based on defined levels of inventory, receivables, property, plant and equipment and leased equipment, as well as total debt to consolidated capitalization and fixed charges coverage ratios.

As of August 31, 2016, lines of credit totaling \$15.6 million secured by certain of our European assets, with various variable rates that range from Warsaw Interbank Offered Rate (WIBOR) plus 1.2% to WIBOR plus 1.3%, were available for working capital needs of the European manufacturing operation. European credit facilities are continually being renewed. Currently these European credit facilities have maturities that range from February 2017 through June 2017.

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As of August 31, 2016, our Mexican railcar manufacturing joint venture had two lines of credit totaling \$50.0 million. The first line of credit provides up to \$30.0 million and is fully guaranteed by us and our joint venture partner. Advances under this facility bear interest at LIBOR plus 2.0%. The Mexican railcar manufacturing joint venture will be able to draw against this facility through January 2019. The second line of credit provides up to \$20.0 million, of which we and our joint venture partner have each guaranteed 50%. Advances under this facility bear interest at LIBOR plus 2.0%. The Mexican railcar manufacturing joint venture will be able to draw amounts available under this facility through August 2017.

As of August 31, 2016, outstanding commitments under the senior secured credit facilities consisted of \$81.3 million in letters of credit under the North American credit facility.

The revolving and operating lines of credit, along with notes payable, contain covenants with respect to us and our various subsidiaries, the most restrictive of which, among other things, limit our ability to: incur additional indebtedness or guarantees; pay dividends or repurchase stock; enter into sale leaseback transactions; create liens; sell assets; engage in transactions with affiliates, including joint ventures and non U.S. subsidiaries, including but not limited to loans, advances, equity investments and guarantees; enter into mergers, consolidations or sales of substantially all our assets; and enter into new lines of business. The covenants also require certain maximum ratios of debt to total capitalization and minimum levels of fixed charges (interest plus rent) coverage. As of August 31, 2016, we were in compliance with all such restrictive covenants.

We may from time to time seek to repurchase or otherwise retire or exchange securities, including outstanding borrowings and equity securities, and take other steps to reduce our debt or otherwise improve our balance sheet. These actions may include open market repurchases, unsolicited or solicited privately negotiated transactions or other retirements, repurchases or exchanges. Such repurchases or exchanges, if any, will depend on a number of factors, including, but not limited to, prevailing market conditions, trading levels of our debt, our liquidity requirements and contractual restrictions, if applicable.

We have global operations that conduct business in their local currencies as well as other currencies. To mitigate the exposure to transactions denominated in currencies other than the functional currency, we enter into foreign currency forward exchange contracts with established financial institutions to protect the margin on a portion of foreign currency sales in firm backlog. Given the strong credit standing of the counterparties, no provision has been made for credit loss due to counterparty non-performance.

As of August 31, 2016, the Mexican railcar manufacturing joint venture had \$0.7 million of third party debt, of which we and our joint venture partner have each guaranteed approximately \$0.3 million.

In accordance with customary business practices in Europe, we have \$2.6 million in third party warranty guarantee facilities as of August 31, 2016. To date no amounts have been drawn under these guarantee facilities.

We made \$7.9 million in cash contributions and \$5.0 million in loans to GBW, an unconsolidated 50/50 joint venture, for the year ended August 31, 2016. We are likely to make additional capital contributions or loans to GBW in the future. As of August 31, 2016, we had a \$36.5 million note receivable balance from GBW which is included on the Consolidated Balance Sheet in Accounts receivable, net.

We expect existing funds and cash generated from operations, together with proceeds from financing activities including borrowings under existing credit facilities and long-term financings, to be sufficient to fund dividends, working capital needs, additional investments in GBW, planned capital expenditures and expected debt repayments during the next twelve months.

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The following table shows our estimated future contractual cash obligations as of August 31, 2016:

| <i>(In thousands)</i> | Total | Years Ending August 31, | | | | | 2021 | Thereafter |
|-------------------------|--------------|--------------------------------|-------------|-------------|-------------|----------|-------------|-------------------|
| | | 2017 | 2018 | 2019 | 2020 | | | |
| Notes payable | \$ 303,969 | \$ 7,437 | \$ 126,282 | \$ 7,000 | \$ 163,250 | | | |
| Railcar leases | 26,990 | 6,756 | 6,158 | 5,022 | 4,056 | 1,181 | 3,817 | |
| Interest ⁽¹⁾ | 26,928 | 9,683 | 9,456 | 5,072 | 2,717 | | | |
| Operating leases | 15,674 | 4,716 | 3,241 | 2,960 | 2,773 | 1,644 | 340 | |
| Contingent liability | 8,720 | 8,720 | | | | | | |
| Other | 251 | 47 | 59 | 53 | 92 | | | |
| | \$ 382,532 | \$ 37,359 | \$ 145,196 | \$ 20,107 | \$ 172,888 | \$ 2,825 | \$ 4,157 | |

⁽¹⁾ A portion of the estimated future cash obligation relates to interest on variable rate borrowings.

Due to uncertainty with respect to the timing of future cash flows associated with our unrecognized tax benefits at August 31, 2016, we are unable to estimate the period of cash settlement with the respective taxing authority. Therefore, approximately \$1.2 million in uncertain tax positions, including interest, have been excluded from the contractual table above. See Note 18 to the Consolidated Financial Statements for a discussion on income taxes.

Off Balance Sheet Arrangements

We do not currently have off balance sheet arrangements that have or are likely to have a material current or future effect on our Consolidated Financial Statements.

Critical Accounting Policies and Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the U.S. requires judgment on the part of management to arrive at estimates and assumptions on matters that are inherently uncertain. These estimates may affect the amount of assets, liabilities, revenue and expenses reported in the financial statements and accompanying notes and disclosure of contingent assets and liabilities within the financial statements. Estimates and assumptions are periodically evaluated and may be adjusted in future periods. Actual results could differ from those estimates.

Income taxes - For financial reporting purposes, income tax expense is estimated based on amounts anticipated to be reported on tax return filings. Those anticipated amounts may change from when the financial statements are prepared to when the tax returns are filed. Further, because tax filings are subject to review by taxing authorities, there is risk that a position taken in preparation of a tax return may be challenged by a taxing authority. If a challenge is successful, differences in tax expense or between current and deferred tax items may arise in future periods. Any material effect of such differences would be reflected in the financial statements when management considers the effect more likely than not of occurring and the amount reasonably estimable. Valuation allowances reduce deferred tax assets to amounts more likely than not that will be realized based on information available when the financial statements are prepared. This information may include estimates of future income and other assumptions that are inherently uncertain.

Maintenance obligations - We are responsible for maintenance on a portion of the managed and owned lease fleet under the terms of maintenance obligations defined in the underlying lease or management agreement. The estimated maintenance liability is based on maintenance histories for each type and age of railcar. These estimates involve judgment as to the future costs of repairs and the types and timing of repairs required over the lease term. As we cannot predict with certainty the prices, timing and volume of maintenance needed in the future on railcars under long-term leases, this estimate is uncertain and could be materially different from maintenance requirements. The liability is periodically reviewed and updated based on maintenance trends and known future repair or refurbishment requirements. These adjustments could be material due to the inherent uncertainty in predicting future maintenance requirements.

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Warranty accruals - Warranty costs to cover a defined warranty period are estimated and charged to operations. The estimated warranty cost is based on historical warranty claims for each particular product type. For new product types without a warranty history, preliminary estimates are based on historical information for similar product types. These estimates are inherently uncertain as they are based on historical data for existing products and judgment for new products. If warranty claims are made in the current period for issues that have not historically been the subject of warranty claims and were not taken into consideration in establishing the accrual or if claims for issues already considered in establishing the accrual exceed expectations, warranty expense may exceed the accrual for that particular product. Conversely, there is the possibility that claims may be lower than estimates. The warranty accrual is periodically reviewed and updated based on warranty trends. However, as we cannot predict future claims, the potential exists for the difference in any one reporting period to be material.

Environmental costs - At times we may be involved in various proceedings related to environmental matters. We estimate future costs for known environmental remediation requirements and accrue for them when it is probable that we have incurred a liability and the related costs can be reasonably estimated based on currently available information. If further developments in or resolution of an environmental matter result in facts and circumstances that are significantly different than the assumptions used to develop these reserves, the accrual for environmental remediation could be materially understated or overstated. Adjustments to these liabilities are made when additional information becomes available that affects the estimated costs to study or remediate any environmental issues or when expenditures for which reserves are established are made. Due to the uncertain nature of environmental matters, there can be no assurance that we will not become involved in future litigation or other proceedings or, if we were found to be responsible or liable in any litigation or proceeding, that such costs would not be material to us.

Revenue recognition - Revenue is recognized when persuasive evidence of an arrangement exists, delivery has occurred or services have been rendered, the price is fixed or determinable and collectability is reasonably assured.

Railcars are generally manufactured, repaired or refurbished and wheels and parts produced under firm orders from third parties. Revenue is recognized when these products or services are completed, accepted by an unaffiliated customer and contractual contingencies removed. Certain leases are operated under car hire arrangements whereby revenue is earned based on utilization, car hire rates and terms specified in the lease agreement. Car hire revenue is reported from a third party source two months in arrears; however, such revenue is accrued in the month earned based on estimates of use from historical activity and is adjusted to actual as reported. These estimates are inherently uncertain as they involve judgment as to the estimated use of each railcar. Adjustments to actual have historically not been significant. Revenues from construction of marine barges are either recognized on the percentage of completion method during the construction period or on the completed contract method based on the terms of the contract. Under the percentage of completion method, judgment is used to determine a definitive threshold against which progress towards completion can be measured to determine timing of revenue recognition. Under the percentage of completion method, revenue is recognized based on the progress toward contract completion measured by actual costs incurred to date in relation to the estimate of total expected costs. Under the completed contract method, revenue is not recognized until the project has been fully completed.

We will periodically sell railcars with leases attached to financial investors. Revenue and cost of revenue associated with railcars that the Company has manufactured are recognized in Manufacturing once sold. Revenue and cost of revenue associated with railcars which were obtained from a third party with the intent to resell them and subsequently sold are recognized in Leasing & Services. In addition we will often perform management or maintenance services at market rates for these railcars. Pursuant to the guidance in Accounting Standards Codification (ASC) 840-20-40, we evaluate the terms of any remarketing agreements and any contractual provisions that represent retained risk and the level of retained risk based on those provisions. We determine whether the level of retained risk exceeds 10% of the individual fair value of the railcars with leases attached that are delivered. For any contracts with multiple elements (i.e. railcars, maintenance, management services, etc.) we allocate revenue among the deliverables primarily based upon objective and reliable evidence of the fair value of each element in the arrangement. If objective and reliable evidence of fair value of any element is not available, we will use the element's estimated selling price for purposes of allocating the total arrangement consideration among the elements.

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Impairment of long-lived assets - When changes in circumstances indicate the carrying amount of certain long-lived assets may not be recoverable, the assets are evaluated for impairment. If the forecast undiscounted future cash flows are less than the carrying amount of the assets, an impairment charge to reduce the carrying value of the assets to fair value is recognized in the current period. These estimates are based on the best information available at the time of the impairment and could be materially different if circumstances change. If the forecast undiscounted future cash flows exceeded the carrying amount of the assets it would indicate that the assets were not impaired.

Goodwill and acquired intangible assets - We periodically acquire businesses in purchase transactions in which the allocation of the purchase price may result in the recognition of goodwill and other intangible assets. The determination of the value of such intangible assets requires management to make estimates and assumptions. These estimates affect the amount of future period amortization and possible impairment charges.

Goodwill and indefinite-lived intangible assets are tested for impairment annually during the third quarter. Goodwill and indefinite-lived intangible assets are also tested more frequently if changes in circumstances or the occurrence of events indicates that a potential impairment exists. When changes in circumstances, such as a decline in the market price of our common stock, changes in demand or in the numerous variables associated with the judgments, assumptions and estimates made in assessing the appropriate valuation of goodwill indicate the carrying amount of certain indefinite lived assets may not be recoverable, the assets are evaluated for impairment. Among other things, our assumptions used in the valuation of goodwill include growth of revenue and margins, market multiples, discount rates and increased cash flows over time. If actual operating results were to differ from these assumptions, it may result in an impairment of our goodwill.

The provisions of ASC 350, Intangibles - Goodwill and Other, require that we perform a two-step impairment test on goodwill. In the first step, we compare the fair value of each reporting unit with its carrying value. We determine the fair value of our reporting units based on a weighting of income and market approaches. Under the income approach, we calculate the fair value of a reporting unit based on the present value of estimated future cash flows. Under the market approach, we estimate the fair value based on observed market multiples for comparable businesses. The second step of the goodwill impairment test is required only in situations where the carrying value of the reporting unit exceeds its fair value as determined in the first step. In the second step, we would compare the implied fair value of goodwill to its carrying value. The implied fair value of goodwill is determined by allocating the fair value of a reporting unit to all of the assets and liabilities of that unit as if the reporting unit had been acquired in a business combination and the fair value of the reporting unit was the price paid to acquire the reporting unit. The excess of the fair value of a reporting unit over the amounts assigned to its assets and liabilities is the implied fair value of goodwill. An impairment loss is recorded to the extent that the carrying amount of the reporting unit goodwill exceeds the implied fair value of that goodwill. The goodwill balance relates to the Wheels & Parts segment.

New Accounting Pronouncements

See Note 2 of Notes to Consolidated Financial Statements included in Part II, Item 8 of this Annual Report on Form 10-K.

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**Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT
MARKET RISK**

Foreign Currency Exchange Risk

We have global operations that conduct business in their local currencies as well as other currencies. To mitigate the exposure to transactions denominated in currencies other than the functional currency of each entity, we enter into foreign currency forward exchange contracts to protect revenue or margin on a portion of forecast foreign currency sales and expenses. At August 31, 2016 exchange rates, forward exchange contracts for the purchase of Polish Zlotys and the sale of Euros and U.S. Dollars; and for the purchase of U.S. Dollars and the sale of Saudi Riyals aggregated to \$405.2 million. Because of the variety of currencies in which purchases and sales are transacted and the interaction between currency rates, it is not possible to predict the impact a movement in a single foreign currency exchange rate would have on future operating results.

In addition to exposure to transaction gains or losses, we are also exposed to foreign currency exchange risk related to the net asset position of our foreign subsidiaries where the functional currency is not U.S. Dollars. At August 31, 2016, net assets of foreign subsidiaries aggregated \$79.2 million and a 10% strengthening of the U.S. Dollar relative to the foreign currencies would result in a decrease in equity of \$7.9 million, or 0.9% of Total equity Greenbrier. This calculation assumes that each exchange rate would change in the same direction relative to the U.S. Dollar.

Interest Rate Risk

We have managed a portion of our variable rate debt with interest rate swap agreements, effectively converting \$92.1 million of variable rate debt to fixed rate debt. As a result, we are exposed to interest rate risk relating to our revolving debt and a portion of term debt, which are at variable rates. At August 31, 2016, 69% of our outstanding debt had fixed rates and 31% had variable rates. At August 31, 2016, a uniform 10% increase in variable interest rates would result in approximately \$0.2 million of additional annual interest expense.

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Report of Independent Registered Public Accounting Firm

The Board of Directors and Stockholders

The Greenbrier Companies, Inc. and subsidiaries:

We have audited the accompanying consolidated balance sheets of The Greenbrier Companies, Inc. and subsidiaries (the Company) as of August 31, 2016 and 2015, and the related consolidated statements of income, comprehensive income, equity, and cash flows for each of the years in the three-year period ended August 31, 2016. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of The Greenbrier Companies, Inc. and subsidiaries as of August 31, 2016 and 2015, and the results of their operations and their cash flows for each of the years in the three-year period ended August 31, 2016, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), The Greenbrier Companies, Inc. and subsidiaries' internal control over financial reporting as of August 31, 2016, based on criteria established in *Internal Control Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO), and our report dated October 25, 2016 expressed an unqualified opinion on the effectiveness of the Company's internal control over financial reporting.

/s/ KPMG LLP

Portland, OR

October 25, 2016

Table of Contents**Item 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA**
Consolidated Balance Sheets

AS OF AUGUST 31,

| <i>(In thousands)</i> | 2016 | 2015 |
|---|---------------------|---------------------|
| Assets | | |
| Cash and cash equivalents | \$ 222,679 | \$ 172,930 |
| Restricted cash | 24,279 | 8,869 |
| Accounts receivable, net | 232,517 | 196,029 |
| Inventories | 365,805 | 445,535 |
| Leased railcars for syndication | 144,932 | 212,534 |
| Equipment on operating leases, net | 306,266 | 255,391 |
| Property, plant and equipment, net | 329,990 | 303,135 |
| Investment in unconsolidated affiliates | 98,682 | 87,270 |
| Intangibles and other assets, net | 69,475 | 65,554 |
| Goodwill | 43,265 | 43,265 |
| | \$ 1,837,890 | \$ 1,790,512 |
| Liabilities and Equity | | |
| Revolving notes | \$ | \$ 50,888 |
| Accounts payable and accrued liabilities | 369,754 | 455,213 |
| Deferred income taxes | 51,619 | 60,657 |
| Deferred revenue | 95,721 | 33,836 |
| Notes payable | 303,969 | 326,429 |
| Commitments and contingencies (Notes 21 & 22) | | |
| Equity: | | |
| Greenbrier | | |
| Preferred stock without par value; 25,000 shares authorized; none outstanding | | |
| Common stock without par value; 50,000 shares authorized; 28,205 and 28,907 outstanding at August 31, 2016 and 2015 | | |
| Additional paid-in capital | 282,886 | 295,444 |
| Retained earnings | 618,178 | 458,599 |
| Accumulated other comprehensive loss | (26,753) | (21,205) |
| Total equity Greenbrier | 874,311 | 732,838 |
| Noncontrolling interest | 142,516 | 130,651 |
| Total equity | 1,016,827 | 863,489 |
| | \$ 1,837,890 | \$ 1,790,512 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Consolidated Statements of Income**

YEARS ENDED AUGUST 31,

| <i>(In thousands, except per share amounts)</i> | 2016 | 2015 | 2014 |
|---|--------------|--------------|--------------|
| Revenue | | | |
| Manufacturing | \$ 2,096,331 | \$ 2,136,051 | \$ 1,624,916 |
| Wheels & Parts | 322,395 | 371,237 | 495,627 |
| Leasing & Services | 260,798 | 97,990 | 83,419 |
| | 2,679,524 | 2,605,278 | 2,203,962 |
| Cost of revenue | | | |
| Manufacturing | 1,630,554 | 1,691,414 | 1,374,008 |
| Wheels & Parts | 293,751 | 334,680 | 463,938 |
| Leasing & Services | 203,782 | 41,831 | 43,796 |
| | 2,128,087 | 2,067,925 | 1,881,742 |
| Margin | 551,437 | 537,353 | 322,220 |
| Selling and administrative | 158,681 | 151,791 | 125,270 |
| Net gain on disposition of equipment | (15,796) | (1,330) | (15,039) |
| Gain on contribution to joint venture | | | (29,006) |
| Restructuring charges | | | 1,475 |
| Earnings from operations | 408,552 | 386,892 | 239,520 |
| Other costs | | | |
| Interest and foreign exchange | 13,502 | 11,179 | 18,695 |
| Earnings before income tax and earnings from unconsolidated affiliates | 395,050 | 375,713 | 220,825 |
| Income tax expense | (112,322) | (112,160) | (72,401) |
| Earnings before earnings from unconsolidated affiliates | 282,728 | 263,553 | 148,424 |
| Earnings from unconsolidated affiliates | 2,096 | 1,756 | 1,355 |
| Net earnings | 284,824 | 265,309 | 149,779 |
| Net earnings attributable to noncontrolling interest | (101,611) | (72,477) | (37,860) |
| Net earnings attributable to Greenbrier | \$ 183,213 | \$ 192,832 | \$ 111,919 |
| Basic earnings per common share: | \$ 6.28 | \$ 6.85 | \$ 3.97 |
| Diluted earnings per common share: | \$ 5.73 | \$ 5.93 | \$ 3.44 |
| Weighted average common shares: | | | |
| Basic | 29,156 | 28,151 | 28,164 |
| Diluted | 32,468 | 33,328 | 34,209 |
| Dividends declared per common share | \$ 0.81 | \$ 0.60 | \$ 0.15 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Consolidated Statements of Comprehensive Income**

YEARS ENDED AUGUST 31,

| <i>(In thousands)</i> | 2016 | 2015 | 2014 |
|--|-------------|-------------|-------------|
| Net earnings | \$ 284,824 | \$ 265,309 | \$ 149,779 |
| Other comprehensive income | | | |
| Translation adjustment | (2,204) | (14,009) | 116 |
| Reclassification of derivative financial instruments recognized in net earnings ¹ | 2,544 | 737 | 471 |
| Unrealized loss on derivative financial instruments ² | (5,842) | (1,330) | (1,019) |
| Other (net of tax effect) | (84) | 173 | 10 |
| | (5,586) | (14,429) | (422) |
| Comprehensive income | 279,238 | 250,880 | 149,357 |
| Comprehensive income attributable to noncontrolling interest | (101,573) | (72,321) | (37,866) |
| Comprehensive income attributable to Greenbrier | \$ 177,665 | \$ 178,559 | \$ 111,491 |

¹ Net of tax of effect of \$1.2 million, \$0.6 million and \$0.5 million for the years ended August 31, 2016, 2015 and 2014.

² Net of tax of effect of \$2.1 million, \$1.0 million and \$0.7 million for the years ended August 31, 2016, 2015 and 2014.

The accompanying notes are an integral part of these financial statements.

Table of Contents**Consolidated Statements of Equity**

| | Attributable to Greenbrier | | | | | | |
|---|----------------------------|----------------------------------|----------------------|---|--|--|-----------------|
| | Common Stock Shares | Additional Paid-in Capital | Retained Earnings | Accumulated Other Comprehensive Loss | Total Attributable to Greenbrier | Attributable to Noncontrolling Interest | Total Equity |
| <i>(In thousands)</i> | | | | | | | |
| Balance September 1, 2013 | 28,084 | \$ 259,864 | \$ 174,842 | \$ (6,504) | \$ 428,202 | \$ 28,625 | \$ 456,827 |
| Net earnings | | | 111,919 | | 111,919 | 37,860 | 149,779 |
| Other comprehensive income (loss), net | | | | (428) | (428) | 6 | (422) |
| Noncontrolling interest adjustments | | | | | | 2,774 | 2,774 |
| Investment by joint venture partner | | | | | | 419 | 419 |
| Joint venture partner distribution declared | | | | | | (7,353) | (7,353) |
| Restricted stock awards (net of cancellations and expense) | 44 | 11,303 | | | 11,303 | | 11,303 |
| Unamortized restricted stock | | (12,360) | | | (12,360) | | (12,360) |
| Restricted stock amortization | | 11,285 | | | 11,285 | | 11,285 |
| Excess tax benefit from restricted stock awards | | 109 | | | 109 | | 109 |
| Dividends | | | (4,202) | | (4,202) | | (4,202) |
| Repurchase of stock | (764) | (34,438) | | | (34,438) | | (34,438) |
| Balance August 31, 2014 | 27,364 | \$ 235,763 | \$ 282,559 | \$ (6,932) | \$ 511,390 | \$ 62,331 | \$ 573,721 |
| Net earnings | | | 192,832 | | 192,832 | 72,477 | 265,309 |
| Other comprehensive loss, net | | | | (14,273) | (14,273) | (156) | (14,429) |
| Noncontrolling interest adjustments | | | | | | 17,215 | 17,215 |
| Purchase of noncontrolling interest | | | | | | (80) | (80) |
| Joint venture partner distribution declared | | | | | | (21,136) | (21,136) |
| Restricted stock awards (net of cancellations) | (15) | 22,622 | | | 22,622 | | 22,622 |
| Unamortized restricted stock | | (24,477) | | | (24,477) | | (24,477) |
| Restricted stock amortization | | 19,459 | | | 19,459 | | 19,459 |
| Excess tax benefit from restricted stock awards | | 2,908 | | | 2,908 | | 2,908 |
| Conversion of convertible notes, net of debt issuance costs | 2,945 | 109,387 | | | 109,387 | | 109,387 |
| Dividends | | | (16,792) | | (16,792) | | (16,792) |
| Repurchase of stock | (1,387) | (70,218) | | | (70,218) | | (70,218) |
| Balance August 31, 2015 | 28,907 | \$ 295,444 | \$ 458,599 | \$ (21,205) | \$ 732,838 | \$ 130,651 | \$ 863,489 |
| Net earnings | | | 183,213 | | 183,213 | 101,611 | 284,824 |
| Other comprehensive loss, net | | | | (5,548) | (5,548) | (38) | (5,586) |
| Noncontrolling interest adjustments | | | | | | 526 | 526 |
| Purchase of noncontrolling interest | | | | | | (1,195) | (1,195) |
| Joint venture partner distribution declared | | | | | | (94,439) | (94,439) |
| Investment by joint venture partner | | | | | | 5,400 | 5,400 |
| Restricted stock awards (net of cancellations) | 353 | 6,055 | | | 6,055 | | 6,055 |
| Unamortized restricted stock | | (11,555) | | | (11,555) | | (11,555) |
| Restricted stock amortization | | 22,502 | | | 22,502 | | 22,502 |
| Excess tax benefit from restricted stock awards | | 2,813 | | | 2,813 | | 2,813 |
| Dividends | | | (23,634) | | (23,634) | | (23,634) |
| Repurchase of stock | (1,055) | (32,373) | | | (32,373) | | (32,373) |
| Balance August 31, 2016 | 28,205 | \$ 282,886 | \$ 618,178 | \$ (26,753) | \$ 874,311 | \$ 142,516 | \$ 1,016,827 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Consolidated Statements of Cash Flows**

YEARS ENDED AUGUST 31,

| <i>(In thousands)</i> | 2016 | 2015 | 2014 |
|---|-------------|-------------|-------------|
| Cash flows from operating activities: | | | |
| Net earnings | \$ 284,824 | \$ 265,309 | \$ 149,779 |
| Adjustments to reconcile net earnings to net cash provided by operating activities: | | | |
| Deferred income taxes | (8,935) | (20,151) | (4,687) |
| Depreciation and amortization | 63,345 | 45,156 | 40,422 |
| Net gain on disposition of equipment | (15,796) | (1,330) | (15,039) |
| Stock based compensation expense | 24,037 | 19,459 | 11,285 |
| Gain on contribution to joint venture | | | (29,006) |
| Noncontrolling interest adjustments | 526 | 17,215 | 2,774 |
| Other | 560 | 1,184 | 576 |
| Decrease (increase) in assets: | | | |
| Accounts receivable, net | (32,051) | 13,652 | (23,749) |
| Inventories | 53,711 | (143,849) | (9,675) |
| Leased railcars for syndication | 19,154 | (90,614) | (57,779) |
| Other | (16,989) | 575 | (4,069) |
| Increase (decrease) in liabilities: | | | |
| Accounts payable and accrued liabilities | (91,428) | 72,419 | 63,362 |
| Deferred revenue | 50,712 | 13,308 | 11,713 |
| Net cash provided by operating activities | 331,670 | 192,333 | 135,907 |
| Cash flows from investing activities: | | | |
| Proceeds from sales of assets | 103,715 | 5,295 | 54,235 |
| Capital expenditures | (139,013) | (105,989) | (70,227) |
| Decrease (increase) in restricted cash | (15,410) | 271 | (333) |
| Investment in and advances to unconsolidated affiliates | (12,855) | (34,453) | (13,753) |
| Cash distribution from joint ventures | 7,855 | 3,345 | |
| Net cash used in investing activities | (55,708) | (131,531) | (30,078) |
| Cash flows from financing activities: | | | |
| Net changes in revolving notes with maturities of 90 days or less | (49,000) | 49,000 | |
| Proceeds from revolving notes with maturities longer than 90 days | | 44,451 | 37,819 |
| Repayments of revolving notes with maturities longer than 90 days | (1,888) | (55,644) | (72,947) |
| Proceeds from issuance of notes payable | | | 200,000 |
| Repayments of notes payable | (22,299) | (7,475) | (128,797) |
| Debt issuance costs | (4,161) | | (382) |
| Decrease (increase) in restricted cash | | 11,000 | (11,000) |
| Repurchase of stock | (33,498) | (69,950) | (33,583) |
| Dividends | (23,303) | (16,491) | (4,123) |
| Cash distribution to joint venture partner | (95,092) | (20,375) | (5,076) |
| Investment by joint venture partner | 5,400 | | 419 |
| Excess tax benefit from restricted stock awards | 2,813 | 2,908 | 109 |
| Other | (887) | (248) | |
| Net cash used in financing activities | (221,915) | (62,824) | (17,561) |
| Effect of exchange rate changes | (4,298) | (9,964) | (787) |
| Increase (decrease) in cash and cash equivalents | 49,749 | (11,986) | 87,481 |
| Cash and cash equivalents | | | |
| Beginning of period | 172,930 | 184,916 | 97,435 |
| End of period | \$ 222,679 | \$ 172,930 | \$ 184,916 |

| Cash paid during the period for: | | | |
|--|------------|------------|-----------|
| Interest | \$ 12,277 | \$ 15,535 | \$ 14,347 |
| Income taxes, net | \$ 125,455 | \$ 139,960 | \$ 69,263 |
| Non-cash activity | | | |
| Transfer from Leased railcars for syndication to Equipment on operating leases, net | \$ 48,096 | \$ 3,313 | \$ |
| Transfer from Inventories to Equipment on operating leases, net | \$ 25,069 | \$ | \$ |
| Capital expenditures accrued in Accounts payable and accrued liabilities | \$ 8,408 | \$ 8,758 | \$ 3,349 |
| Change in Accounts payable and accrued liabilities associated with cash distributions to joint venture partner | \$ 652 | \$ | \$ |
| Change in Accounts payable and accrued liabilities associated with repurchase of stock | \$ 1,125 | \$ 268 | \$ |
| Transfer of Property, plant and equipment, net to Intangibles and other assets, net | \$ 588 | \$ 4,045 | \$ |
| Change in Accounts payable and accrued liabilities associated with dividends declared | \$ (331) | \$ 301 | \$ 79 |
| Conversion of convertible notes, net of debt issuance costs | \$ | \$ 109,387 | \$ |
| Transfer of Inventories to Accounts receivable, net | \$ | \$ | \$ 20,986 |

The accompanying notes are an integral part of these financial statements.

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Notes to Consolidated Financial Statements

Note 1 - Nature of Operations

The Greenbrier Companies, Inc. and its subsidiaries currently operate in four reportable segments: Manufacturing; Wheels & Parts; Leasing & Services; and GBW Joint Venture. The segments are operationally integrated. The Manufacturing segment, operating from facilities in the United States, Mexico and Poland, produces double-stack intermodal railcars, tank cars, conventional railcars, automotive railcar products and marine vessels. The Wheels & Parts segment performs wheel and axle servicing in North America and production of a variety of parts for the railroad industry. The Leasing & Services segment owns approximately 8,900 railcars (6,600 railcars held as equipment on operating leases, 2,200 held as leased railcars for syndication and 100 held as finished goods inventory) and provides management services for approximately 264,000 railcars for railroads, shippers, carriers, institutional investors and other leasing and transportation companies in North America. The GBW Joint Venture segment provides repair services at over 30 locations across North America, including more than 10 tank car repair and maintenance facilities certified by the Association of American Railroads (AAR). The results of these operations were included as part of Earnings from unconsolidated affiliates as the Company accounts for their interest in GBW under the equity method of accounting. Through unconsolidated joint ventures the Company also produces rail castings, tank heads and other components and has a direct and indirect 35% ownership stake in a railcar manufacturer in Brazil.

Note 2 - Summary of Significant Accounting Policies

Principles of consolidation - The financial statements include the accounts of the Company and its subsidiaries in which it has a controlling interest. All intercompany transactions and balances are eliminated upon consolidation.

Unclassified balance sheet - The balance sheets of the Company are presented in an unclassified format as a result of significant leasing activities for which the current or non-current distinction is not relevant. In addition, the activities of the Manufacturing; Wheels & Parts; and Leasing & Services segments are so intertwined that in the opinion of management, any attempt to separate the respective balance sheet categories would not be meaningful and may lead to the development of misleading conclusions by the reader.

Foreign currency translation - Certain operations outside the U.S., primarily in Poland, prepare financial statements in currencies other than the U.S. Dollar. Revenues and expenses are translated at average exchange rates for the year, while assets and liabilities are translated at year-end exchange rates. Translation adjustments are accumulated as a separate component of equity in other comprehensive income (loss). The foreign currency translation adjustment balances were \$20.8 million, \$18.7 million and \$4.8 million as of August 31, 2016, 2015 and 2014.

Cash and cash equivalents - Cash may temporarily be invested primarily in money market funds. All highly-liquid investments with a maturity of three months or less at the date of acquisition are considered cash equivalents.

Restricted cash - Restricted cash primarily relates to amounts associated with funds temporarily held in connection with a performance guarantee as part of a recent transaction, amounts held to support a target minimum rate of return on certain agreements and a pass through account for activity related to management services provided for certain third party customers.

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Accounts receivable - Accounts receivable includes receivables from related parties (see Note 17 - Related Party Transactions) and is stated net of allowance for doubtful accounts of \$2.2 million and \$2.4 million as of August 31, 2016 and 2015.

| <i>(In thousands)</i> | As of August 31, | | |
|--|------------------|----------|----------|
| | 2016 | 2015 | 2014 |
| Allowance for doubtful accounts | | | |
| Balance at beginning of period | \$ 2,449 | \$ 2,033 | \$ 3,894 |
| Additions, net of reversals | 70 | 684 | 604 |
| Usage | (277) | (108) | (2,524) |
| Currency translation effect | (27) | (160) | 59 |
| Balance at end of period | \$ 2,215 | \$ 2,449 | \$ 2,033 |

Inventories - Inventories are valued at the lower of cost or market using the first-in first-out method. Work-in-process includes material, labor and overhead. Finished goods includes completed wheels, parts and railcars not on lease or in transit.

Leased railcars for syndication - Leased railcars for syndication consist of newly-built railcars manufactured at one of the Company's facilities or railcars purchased from a third party, which have been placed on lease to a customer and which the Company intends to sell to an investor with the lease attached. These railcars are generally anticipated to be sold within six months of delivery of the last railcar or six months from when the Company acquires the railcar from a third party and are typically not depreciated during that period as the Company does not believe any economic value of a railcar is lost in the first six months. In the event the railcars are not sold in the first six months, the railcars are either held in Leased railcars for syndication and are depreciated or are transferred to Equipment on operating leases and are depreciated. As of August 31, 2016, Leased railcars for syndication was \$144.9 million compared to \$212.5 million as of August 31, 2015.

Equipment on operating leases, net - Equipment on operating leases is stated net of accumulated depreciation. Depreciation to estimated salvage value is provided on the straight-line method over the estimated useful lives of up to thirty-five years. Management periodically reviews salvage value estimates based on current scrap prices and what the Company expects to receive upon disposal.

Investment in unconsolidated affiliates - Investment in unconsolidated affiliates includes the Company's interests which are accounted for under the equity method of accounting. As of August 31, 2016 this included the Company's 50% interest in GBW Railcar Services LLC, 33% interest in Ohio Castings Company LLC, 19.5% interest in Greenbrier-Maxion, 19.5% interest in Amsted-Maxion Cruzeiro (which owns 80.5% of Greenbrier-Maxion), 50% interest in GGSynergy SA de C.V., 8% interest in MUL Greenbrier LLC and a 1% interest in each of Green Union I Trust, Green Union II Trust and Green Union III Trust.

Property, plant and equipment - Property, plant and equipment is stated at cost, net of accumulated depreciation. Depreciation is provided on the straight-line method over estimated useful lives which are as follows:

| | Depreciable Life |
|----------------------------|---------------------|
| Buildings and improvements | 10 - 25 years |
| Machinery and equipment | 3 - 15 years |
| Other | 3 - 7 years |

Goodwill - Goodwill is recorded when the purchase price of an acquisition exceeds the fair market value of the net assets acquired. Goodwill is not amortized and is tested for impairment at least annually and more frequently if material changes in events or circumstances arise. The provisions of ASC 350, Intangibles - Goodwill and Other, require the Company to perform a two-step impairment test on goodwill. In the first step, the Company compares the fair value of each reporting unit with its carrying value. The second step of the goodwill impairment test is required only in situations where the carrying value of the reporting unit exceeds its fair value as determined in the first step. In the second step, the Company compares the implied fair value of goodwill to its carrying value. An impairment loss is recorded to the extent that the carrying amount of the reporting unit goodwill exceeded the implied fair value of that goodwill.

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Intangible and other assets, net - Intangible assets are recorded when a portion of the purchase price of an acquisition is allocated to assets such as customer contracts and relationships and trade names. Intangible assets with finite lives are amortized using the straight line method over their estimated useful lives and primarily include long-term customer agreements which are amortized over 5 to 20 years. Other assets include loan fees and debt acquisition costs which are capitalized and amortized as interest expense over the life of the related borrowings.

Impairment of long-lived assets - When changes in circumstances indicate the carrying amount of certain long-lived assets may not be recoverable, the assets are evaluated for impairment. If the forecasted undiscounted future cash flows are less than the carrying amount of the assets, an impairment charge to reduce the carrying value of the assets to estimated realizable value is recognized in the current period. No impairment was recorded in the years ended August 31, 2016, 2015 and 2014.

Maintenance obligations - The Company is responsible for maintenance on a portion of the managed and owned lease fleet under the terms of maintenance obligations defined in the underlying lease or management agreement. The estimated liability is based on maintenance histories for each type and age of railcar. The liability, included in Accounts payable and accrued liabilities, is reviewed periodically and updated based on maintenance trends and known future repair or refurbishment requirements.

Warranty accruals - Warranty costs are estimated and charged to operations to cover a defined warranty period. The estimated warranty cost is based on history of warranty claims for each particular product type. For new product types without a warranty history, preliminary estimates are based on historical information for similar product types. The warranty accruals, included in Accounts payable and accrued liabilities, are reviewed periodically and updated based on warranty trends.

Income taxes - The liability method is used to account for income taxes. Deferred income taxes are provided for the temporary effects of differences between assets and liabilities recognized for financial statement and income tax reporting purposes. Valuation allowances reduce deferred tax assets to an amount that will more likely than not be realized. As a result, we recognize liabilities for uncertain tax positions based on whether evidence indicates that it is more likely than not that the position will be sustained on audit. It is inherently difficult and subjective to estimate such amounts, as this requires us to estimate the probability of various possible outcomes. The Company reevaluates these uncertain tax positions on a quarterly basis. Changes in assumptions may result in the recognition of a tax benefit or an additional charge to the tax provision.

Noncontrolling interest - The Company has a joint venture with Grupo Industrial Monclova, S.A. (GIMSA) that manufactures new railroad freight cars for the North American marketplace at GIMSA's existing manufacturing facility located in Frontera, Mexico. Each party owns a 50% interest in the joint venture. The financial results of this operation are consolidated for financial reporting purposes as the Company maintains a controlling interest as evidenced by the right to appoint the majority of the Board of Directors, control over accounting, financing, marketing and engineering and approval and design of products. The noncontrolling interest reflected in the Company's consolidated financial statements primarily represents the joint venture partner's equity in this venture.

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Accumulated other comprehensive loss - Accumulated other comprehensive loss, net of tax as appropriate, consisted of the following:

| <i>(In thousands)</i> | Unrealized Loss on Derivative Financial Instruments | Foreign Currency Translation Adjustment⁽¹⁾ | Other | Accumulated Other Comprehensive Loss |
|--|--|--|--------------|---|
| Balance, August 31, 2015 | \$ (2,194) | \$ (18,666) | \$ (345) | \$ (21,205) |
| Other comprehensive loss before reclassifications | (5,842) | (2,166) | (84) | (8,092) |
| Amounts reclassified from accumulated other comprehensive loss | 2,544 | | | 2,544 |
| Balance, August 31, 2016 | \$ (5,492) | \$ (20,832) | \$ (429) | \$ (26,753) |

¹ Primarily relates to the foreign currency translation of the Company's Zloty functional currency operations in Poland to U.S. Dollars. The amounts reclassified out of Accumulated other comprehensive loss into the Consolidated Statements of Income, with presentation location, were as follows:

| <i>(In thousands)</i> | Year Ended August 31, | | Financial Statement |
|--|------------------------------|-------------|-------------------------------|
| | 2016 | 2015 | Location |
| (Gain) loss on derivative financial instruments: | | | |
| Foreign exchange contracts | \$ 2,135 | \$ (457) | Revenue and Cost of revenue |
| Interest rate swap contracts | 1,561 | 1,786 | Interest and foreign exchange |
| | 3,696 | 1,329 | Total before tax |
| | (1,152) | (592) | Tax expense |
| | \$ 2,544 | \$ 737 | Net of tax |

Revenue recognition - Revenue is recognized when persuasive evidence of an arrangement exists, delivery has occurred or services have been rendered, the price is fixed or determinable and collectability is reasonably assured.

Railcars are generally manufactured, repaired or refurbished under firm orders from third parties. Revenue is recognized when new, used, refurbished or repaired railcars are completed, accepted by an unaffiliated customer and contractual contingencies removed. Marine revenues are either recognized on the percentage of completion method during the construction period or on the completed contract method based on the terms of the contract. Under the percentage of completion method, revenue is recognized based on the progress toward contract completion measured by actual costs incurred to date in relation to the estimate of total expected costs. Under the completed contract method, revenue is not recognized until the project has been fully completed. Cash payments received prior to meeting revenue recognition criteria are accounted for in Deferred revenue. Operating lease revenue is recognized as earned under the lease terms. Certain leases are operated under car hire arrangements whereby revenue is earned based on utilization, car hire rates and terms specified in the lease agreement.

The Company sells railcars with leases attached to financial investors. Revenue and cost of revenue associated with railcars that the Company has manufactured are recognized in Manufacturing once sold. Revenue and cost of revenue associated with railcars which were obtained from a third party with the intent to resell them and subsequently sold are recognized in Leasing & Services. In addition the Company will often perform management or maintenance services at market rates for these railcars. The Company evaluates the terms of any remarketing agreements and any contractual provisions that represent retained risk and the level of retained risk based on those provisions. The Company applies a 10% threshold to determine whether the level of retained risk exceeds 10% of the individual fair value of the rail cars delivered. For any contracts with multiple elements (i.e. railcars, maintenance, management services, etc.) the Company allocates revenue among the deliverables

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primarily based upon objective and reliable evidence of the fair value of each element in the arrangement. If objective and reliable evidence of fair value of any element is not available, the Company will use its estimated selling price for purposes of allocating the total arrangement consideration among the elements.

Interest and foreign exchange - Includes foreign exchange transaction gains and losses, amortization of loan fee expense, accretion of debt discounts and external interest expense.

| <i>(In thousands)</i> | Years ended August 31, | | |
|--------------------------------|------------------------|-----------|-----------|
| | 2016 | 2015 | 2014 |
| Interest and foreign exchange: | | | |
| Interest and other expense | \$ 17,268 | \$ 18,975 | \$ 18,306 |
| Foreign exchange (gain) loss | (3,766) | (7,796) | 389 |
| | \$ 13,502 | \$ 11,179 | \$ 18,695 |

Research and development - Research and development costs are expensed as incurred. Research and development costs incurred for new product development during the years ended August 31, 2016, 2015 and 2014 were \$2.7 million, \$2.5 million and \$3.6 million.

Forward exchange contracts - Foreign operations give rise to risks from changes in foreign currency exchange rates. Forward exchange contracts with established financial institutions are used to hedge a portion of such risk. Realized and unrealized gains and losses are deferred in other comprehensive income (loss) and recognized in earnings concurrent with the hedged transaction or when the occurrence of the hedged transaction is no longer considered probable. Ineffectiveness is measured and any gain or loss is recognized in foreign exchange gain or loss. Even though forward exchange contracts are entered into to mitigate the impact of currency fluctuations, certain exposure remains, which may affect operating results. In addition, there is risk for counterparty non-performance.

Interest rate instruments - Interest rate swap agreements are used to reduce the impact of changes in interest rates on certain debt. The net cash amounts paid or received under the agreements are recognized as an adjustment to interest expense.

Net earnings per share - Basic earnings per common share (EPS) excludes the potential dilution that would occur if additional shares were issued upon conversion of bonds. Restricted share grants are treated as outstanding when issued and restricted stock units are not treated as outstanding when issued. Restricted share grants and restricted stock units are included in weighted average basic common shares outstanding when calculating EPS when the Company is in a net earnings position.

Dilutive EPS is calculated using the more dilutive of two approaches. The first approach includes the dilutive effect, using the treasury stock method, associated with shares underlying the 2026 Convertible notes and performance based restricted stock units that are subject to performance criteria, for which actual levels of performance above target have been achieved. The second approach supplements the first by including the if converted effect of the 2018 Convertible notes issued in March 2011. Under the if converted method, debt issuance and interest costs, both net of tax, associated with the convertible notes are added back to net earnings and the share count is increased by the shares underlying the convertible notes. The 2026 Convertible notes are included in the calculation of both approaches using the treasury stock method when the average stock price is greater than the applicable conversion price.

Stock-based compensation - The value of stock based compensation awards is amortized as compensation expense from the date of grant through the earlier of the vesting period or the recipient's eligible retirement date. Awards are expensed upon grant when the recipient's eligible retirement date precedes the grant date. Stock based compensation expense consists of restricted stock units, restricted stock and phantom stock units awards. Stock based compensation expense for the years ended August 31, 2016, 2015 and 2014 was \$24.0 million, \$19.5 million and \$11.3 million and was recorded in Selling and administrative on the Consolidated Statements of Income.

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Restricted stock units and restricted stock are accounted for as equity based awards (see Note 15 – Equity). Phantom stock units are accounted for as liability based awards.

Phantom Stock Units

The Company began granting phantom stock units during the year ended August 31, 2016. Every phantom stock unit entitles the participant to receive a cash payment equal to the value of a single share of the Company's common stock upon vesting. The holders of unvested phantom stock units are entitled to participate in dividend equivalents.

During the year ended August 31, 2016, the Company awarded 268,161 phantom stock units which include performance-based grants. As of August 31, 2016, there were a total of 133,139 phantom stock units associated with unvested performance-based grants. The actual number of phantom stock units that will vest associated with performance-based phantom stock units will vary depending on the Company's performance. Approximately 133,139 additional phantom stock units may be granted if performance-based phantom stock units vest at stretch level of performance. These additional units are associated with phantom stock unit awards granted during the year ended August 31, 2016. The grant date fair value of phantom stock awards was \$7.9 million for the year ended August 31, 2016.

Our phantom stock unit grants are considered liability based awards and therefore are re-measured at the end of each reporting period. Compensation expense is recognized through the earlier of the vesting period or the recipient's eligible retirement date. Awards are expensed upon grant when the recipient's eligible retirement date precedes the grant date. Compensation expense related to phantom stock unit grants is recorded in Selling and administrative expense and Cost of revenue on the Company's Consolidated Statements of Income. Compensation expense recognized related to phantom stock units for the year ended August 31, 2016 was \$1.5 million. Unamortized compensation cost related to phantom stock unit grants was \$7.5 million as of August 31, 2016.

Management estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the U.S. requires judgment on the part of management to arrive at estimates and assumptions on matters that are inherently uncertain. These estimates may affect the amount of assets, liabilities, revenue and expenses reported in the financial statements and accompanying notes and disclosure of contingent assets and liabilities within the financial statements. Estimates and assumptions are periodically evaluated and may be adjusted in future periods. Actual results could differ from those estimates.

Prospective Accounting Changes - In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update 2014-09, *Revenue from Contracts with Customers* (ASU 2014-09). The issued guidance converges the criteria for reporting revenue, and requires disclosures sufficient to describe the nature, amount, timing, and uncertainty of revenue and cash flows arising from these contracts. Companies can transition to the standard either retrospectively or as a cumulative effect adjustment as of the date of adoption. The FASB issued a one year deferral and the new standard is effective for fiscal years and interim periods within those years beginning after December 15, 2017. The Company plans to adopt this guidance beginning September 1, 2018. The Company is evaluating the impact of this standard as well as its method of adoption on its consolidated financial statements and disclosures.

In April 2015, the FASB issued Accounting Standards Update 2015-03, *Simplifying the Presentation of Debt Issuance Costs* (ASU 2015-03). The FASB issued this update to simplify the presentation of debt issuance costs related to a recognized debt liability to present the debt issuance costs as a direct deduction from the carrying value of the debt liability rather than showing the debt issuance costs as an asset. The guidance is limited to the presentation of debt issuance costs and does not impact its recognition and measurement. The new guidance is effective for fiscal years and interim periods within those years beginning after December 15, 2015, with early adoption permitted, and is required to be applied on a retrospective basis. The Company plans to adopt this guidance beginning September 1, 2016. As the adoption of this new guidance only amends presentation and disclosure requirements, the adoption will not affect the Company's financial position, results of operations or cash flows.

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In August 2015, the FASB issued Accounting Standards Update 2015-15, *Interest-Imputation of Interest: Presentation and Subsequent Measurement of Debt Issuance Costs Associated with Line of Credit Arrangements* (ASU 2015-15). This update was released because the guidance within ASU 2015-03 for debt issuance costs does not address presentation or subsequent measurement of debt issuance costs related to line of credit arrangements. The SEC staff would not object to an entity deferring and presenting debt issuance costs as an asset and subsequently amortizing the deferred debt issuance costs ratably over the term of the line of credit arrangement, regardless of whether there are any outstanding borrowings on the line of credit arrangement. The new guidance is effective for fiscal years and interim periods within those fiscal years beginning after December 15, 2015. The Company plans to adopt this guidance beginning September 1, 2016. Upon adoption, the Company continues to present debt issuance costs related to line of credit arrangements as an asset. The adoption of this new guidance will not affect the Company's financial position, results of operations or cash flows.

In February 2016, the FASB issued Accounting Standards Update 2016-02, *Leases* (ASU 2016-02). The new guidance supersedes existing guidance on accounting for leases in Topic 840 and is intended to increase the transparency and comparability of accounting for lease transactions. ASU 2016-02 requires most leases to be recognized on the balance sheet. Lessees will need to recognize a right-of-use asset and a lease liability for virtually all leases. The liability will be equal to the present value of lease payments. The asset will be based on the liability, subject to adjustment, such as for initial direct costs. For income statement purposes, the FASB retained a dual model, requiring leases to be classified as either operating or finance. Lessor accounting remains similar to the current model, but updated to align with certain changes to the lessee model and the new revenue recognition standard. The ASU will require both quantitative and qualitative disclosures regarding key information about leasing arrangements. The standard is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018. Early adoption is permitted. The new standard must be adopted using a modified retrospective transition, and provides for certain practical expedients. Transition will require application of the new guidance at the beginning of the earliest comparative period presented. The Company plans to adopt this guidance beginning September 1, 2019. The Company is currently evaluating the impact of this standard on its consolidated financial statements and disclosures.

In March 2016, the FASB issued Accounting Standards Update 2016-09, *Improvements to Employee Share-Based Payment Accounting* (ASU 2016-09). This update will change how companies account for certain aspects of share-based payments to employees. Excess tax benefits or deficiencies related to vested awards, previously recognized in stockholders' equity, will be required to be recognized in the income statement when the awards vest. The new guidance is effective for fiscal years and interim periods within those years beginning after December 15, 2016, with early adoption permitted. The Company plans to adopt this guidance beginning September 1, 2017. The effect of adopting this standard will result in volatility in the provision for income taxes depending on fluctuations in the price of the Company's stock.

Note 3 - Gain on Contribution to Joint Venture

On July 18, 2014 the Company and Watco contributed its respective Repair operations to a newly formed entity, GBW, a 50/50 unconsolidated joint venture. The Company accounts for its interest in GBW under the equity method of accounting.

Upon formation of GBW, the Company recognized a pre-tax non-cash gain of \$29.0 million for the year ended August 31, 2014 which was calculated as the fair value of the Company's 50% share in GBW, less cash and intangibles contributed to GBW and an allocation of goodwill attributed to the Repair business the Company contributed to GBW. The gain was included as Gain on contribution to joint venture in the Consolidated Statements of Income.

Note 4 - Restructuring

During 2013, the Company implemented a restructuring plan to sell or close certain wheels, repair and parts facilities to enhance margins and improve capital efficiency and completed the restructuring plan during 2014. Restructuring charges related to this plan totaled \$1.5 million for the year ended August 31, 2014 and were

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included in the Consolidated Statement of Income. All of the restructuring charges for the year ended August 31, 2014 related to the Company's wheels, repair and parts operations. As of August 31, 2016, all amounts related to this plan have been paid.

Note 5 - Inventories

| <i>(In thousands)</i> | As of August 31, | |
|--|------------------|------------|
| | 2016 | 2015 |
| Manufacturing supplies and raw materials | \$ 240,865 | \$ 311,880 |
| Work-in-process | 68,727 | 75,032 |
| Finished goods | 59,470 | 61,302 |
| Excess and obsolete adjustment | (3,257) | (2,679) |
| | \$ 365,805 | \$ 445,535 |

| <i>(In thousands)</i> | As of August 31, | | |
|---------------------------------------|------------------|----------|----------|
| | 2016 | 2015 | 2014 |
| Excess and obsolete adjustment | | | |
| Balance at beginning of period | \$ 2,679 | \$ 2,866 | \$ 4,228 |
| Charge to cost of revenue | 2,422 | 2,564 | 1,945 |
| Disposition of inventory | (1,792) | (2,434) | (3,307) |
| Currency translation effect | (52) | (317) | |
| Balance at end of period | \$ 3,257 | \$ 2,679 | \$ 2,866 |

Note 6 - Equipment on Operating Leases, net

Equipment on operating leases is reported net of accumulated depreciation of \$92.6 million and \$96.6 million as of August 31, 2016 and 2015. Depreciation expense was \$16.6 million, \$9.4 million and \$9.8 million as of August 31, 2016, 2015 and 2014. In addition, certain railcar equipment leased-in by the Company on operating leases (see Note 21 Lease Commitments) is subleased to customers under non-cancelable operating leases. Aggregate minimum future amounts receivable under all non-cancelable operating leases and subleases are as follows:

| <i>(In thousands)</i> | |
|------------------------|-----------|
| Year ending August 31, | |
| 2017 | \$ 29,892 |
| 2018 | 24,198 |
| 2019 | 19,177 |
| 2020 | 11,883 |
| 2021 | 4,849 |
| Thereafter | 6,463 |
| | \$ 96,462 |

Certain equipment is also operated under daily, monthly or car hire utilization arrangements. Associated revenue amounted to \$14.7 million, \$20.2 million and \$24.8 million for the years ended August 31, 2016, 2015 and 2014.

Table of Contents**Note 7 - Property, Plant and Equipment, net**

| <i>(In thousands)</i> | As of August 31, | |
|----------------------------|------------------|------------|
| | 2016 | 2015 |
| Land and improvements | \$ 50,979 | \$ 46,849 |
| Machinery and equipment | 325,100 | 283,032 |
| Buildings and improvements | 147,160 | 130,577 |
| Construction in progress | 42,879 | 63,518 |
| Other | 46,428 | 41,252 |
| | 612,546 | 565,228 |
| Accumulated depreciation | (282,556) | (262,093) |
| | \$ 329,990 | \$ 303,135 |

Depreciation expense was \$39.2 million, \$31.4 million and \$25.8 million as of August 31, 2016, 2015 and 2014.

Note 8 - Goodwill

The Company's goodwill balance of \$43.3 million as of August 31, 2016 and 2015 related to our Wheels & Parts segment. The gross goodwill balance before accumulated goodwill impairment losses and other reductions was \$195.8 million. Total accumulated goodwill impairment losses and other reductions were \$152.5 million, of which \$128.2 million related to goodwill impairment losses, all of which occurred prior to 2016.

The Company performs a goodwill impairment test annually during the third quarter. Goodwill is also tested more frequently if changes in circumstances or the occurrence of events indicates that a potential impairment exists. The provisions of ASC 350, *Intangibles - Goodwill and Other*, require the Company to perform a two-step impairment test on goodwill.

In the first step, the Company compares the fair value of each reporting unit with its carrying value. The Company determines the fair value of the reporting unit based on a weighting of income and market approaches. Under the income approach, the Company calculates the fair value of a reporting unit based on the present value of estimated future cash flows. Under the market approach, the Company estimates the fair value based on observed market multiples for comparable businesses.

The Company completed step 1 as part of its annual goodwill impairment test during the third quarter of 2016 and concluded that goodwill was not impaired. As a result, step 2 was not considered necessary.

Note 9 - Intangibles and Other Assets, net

Intangible assets that are determined to have finite lives are amortized over their useful lives. Intangible assets with indefinite useful lives are not amortized and are periodically evaluated for impairment.

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The following table summarizes the Company's identifiable intangible and other assets balance:

| <i>(In thousands)</i> | As of August 31, | |
|---|------------------|-----------|
| | 2016 | 2015 |
| Intangible assets subject to amortization: | | |
| Customer relationships | \$ 65,023 | \$ 65,023 |
| Accumulated amortization | (37,251) | (33,828) |
| Other intangibles | 6,298 | 3,422 |
| Accumulated amortization | (5,967) | (3,121) |
| | 28,103 | 31,496 |
| Intangible assets not subject to amortization | 912 | 912 |
| Prepaid and other assets | 14,891 | 13,111 |
| Nonqualified savings plan investments | 15,864 | 11,815 |
| Debt issuance costs, net | 5,597 | 3,823 |
| Assets held for sale | 4,108 | 4,397 |
| | \$ 69,475 | \$ 65,554 |

Amortization expense for the years ended August 31, 2016, 2015 and 2014 was \$6.3 million, \$3.7 million and \$4.5 million. Amortization expense for the years ending August 31, 2017, 2018, 2019, 2020 and 2021 is expected to be \$3.6 million, \$3.5 million, \$3.4 million, \$3.4 million and \$3.4 million.

Note 10 - Revolving Notes

Senior secured credit facilities, consisting of three components, aggregated to \$615.6 million as of August 31, 2016.

As of August 31, 2016, a \$550.0 million revolving line of credit, maturing October 2020, secured by substantially all the Company's assets in the U.S. not otherwise pledged as security for term loans, was available to provide working capital and interim financing of equipment, principally for the U.S. and Mexican operations. Advances under this facility bear interest at LIBOR plus 1.75% or Prime plus 0.75% depending on the type of borrowing. Available borrowings under the credit facility are generally based on defined levels of inventory, receivables, property, plant and equipment and leased equipment, as well as total debt to consolidated capitalization and fixed charges coverage ratios.

As of August 31, 2016, lines of credit totaling \$15.6 million secured by certain of the Company's European assets, with various variable rates that range from Warsaw Interbank Offered Rate (WIBOR) plus 1.2% to WIBOR plus 1.3%, were available for working capital needs of the European manufacturing operation. European credit facilities are continually being renewed. Currently these European credit facilities have maturities that range from February 2017 through June 2017.

As of August 31, 2016, the Company's Mexican railcar manufacturing joint venture has two lines of credit totaling \$50.0 million. The first line of credit provides up to \$30.0 million and is fully guaranteed by the Company and its joint venture partner. Advances under this facility bear interest at LIBOR plus 2.0%. The Mexican railcar manufacturing joint venture will be able to draw against this facility through January 2019. The second line of credit provides up to \$20.0 million, of which the Company and its joint venture partner have each guaranteed 50%. Advances under this facility bear interest at LIBOR plus 2.0%. The Mexican railcar manufacturing joint venture will be able to draw amounts available under this facility through August 2017.

As of August 31, 2016, outstanding commitments under the senior secured credit facilities consisted of \$81.3 million in letters of credit under the North American credit facility.

As of August 31, 2015, outstanding commitments under the senior secured credit facilities consisted of \$47.2 million in letters of credit and \$49.0 million in revolving notes under the North American credit facility and \$1.9 million outstanding in revolving notes under the Mexican railcar manufacturing joint venture credit facilities.

Table of Contents**Note 11 - Accounts Payable and Accrued Liabilities**

| <i>(In thousands)</i> | As of August 31, | |
|---|------------------|------------|
| | 2016 | 2015 |
| Trade payables | \$ 182,334 | \$ 263,665 |
| Accrued payroll and related liabilities | 76,058 | 70,836 |
| Other accrued liabilities | 71,260 | 64,584 |
| Accrued maintenance | 18,646 | 18,642 |
| Accrued warranty | 12,159 | 11,512 |
| Income taxes payable | 3,991 | 22,465 |
| Other | 5,306 | 3,509 |
| | \$ 369,754 | \$ 455,213 |

Note 12 - Maintenance and Warranty Accruals

| <i>(In thousands)</i> | As of August 31, | | |
|--------------------------------|------------------|-----------|-----------|
| | 2016 | 2015 | 2014 |
| Accrued maintenance | | | |
| Balance at beginning of period | \$ 18,642 | \$ 14,329 | \$ 11,420 |
| Charged to cost of revenue | 12,926 | 13,622 | 11,423 |
| Payments | (12,922) | (9,309) | (8,514) |
| Balance at end of period | \$ 18,646 | \$ 18,642 | \$ 14,329 |
| Accrued warranty | | | |
| Balance at beginning of period | \$ 11,512 | \$ 9,340 | \$ 12,128 |
| Charged to cost of revenue | 6,069 | 7,206 | 2,205 |
| Payments | (5,299) | (4,703) | (5,122) |
| Currency translation effect | (123) | (331) | 129 |
| Balance at end of period | \$ 12,159 | \$ 11,512 | \$ 9,340 |

Note 13 - Notes Payable

| <i>(In thousands)</i> | As of August 31, | |
|------------------------------------|------------------|------------|
| | 2016 | 2015 |
| Convertible senior notes, due 2018 | \$ 119,063 | \$ 119,063 |
| Convertible senior notes, due 2026 | | 14,851 |
| Term loans | 184,906 | 192,515 |
| | \$ 303,969 | \$ 326,429 |

Convertible senior notes, due 2018, bear interest at a fixed rate of 3.5%, paid semi-annually in arrears on April 1st and October 1st. The convertible notes mature on April 1, 2018, unless earlier repurchased by the Company or converted in accordance with their terms. Holders may convert at their option at any time prior to the business day immediately preceding the stated maturity date. The convertible notes are senior unsecured obligations and rank equally with other senior unsecured debt. The convertible notes are convertible into shares of the Company's common stock, at an initial conversion rate of 26.2838 shares per \$1,000 principal amount of the notes (which is equal to an initial conversion

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price of \$38.05 per share). The initial conversion rate and conversion price are subject to adjustment upon the occurrence of certain events, such as distributions, dividends or stock splits. There were \$7.9 million in original debt issuance costs, included in Intangibles and other assets on the Consolidated Balance Sheets, which are being amortized using the effective interest method. The amortization expense is being included in Interest and foreign exchange on the Consolidated Statements of Income. During 2015, \$110.9 million in principal of the original \$230.0 million was converted into 2.9 million

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shares of the Company's common stock which resulted in a principal balance of \$119.1 million. Associated debt issuance costs of \$1.5 million were removed from Intangibles and other assets, net and charged against additional paid in capital in 2015.

Convertible senior notes, due 2026, all of which have been retired, bore interest at a fixed rate of 2.375%, paid semi-annually in arrears on May 15th and November 15th. The terms of the 2026 Notes specified dates or events involving certain fundamental changes, where holders could require the Company to repurchase all or a portion of their 2026 Notes at a price equal to 100% of the principal amount of the 2026 Notes plus accrued and unpaid interest (the Put Option). Greenbrier also had an option to redeem all or a portion of the notes at a redemption price equal to 100% of the principal amount of the notes plus accrued and unpaid interest (the Call Option). During the year ended August 31, 2016, the Company retired the remaining \$14.9 million of outstanding 2026 Notes of which \$14.0 million was retired pursuant to a scheduled Put Option and \$0.9 million was retired pursuant to the Company's Call Option.

Term loans are primarily composed of:

\$200 million of senior term debt, with a maturity date of March 2020, which is secured by a pool of leased railcars and cash. The debt bears a floating interest rate of LIBOR plus 1.75% with principal of \$1.75 million paid quarterly in arrears and a balloon payment of \$159.8 million due at maturity. An interest rate swap agreement was entered into on 50% of the initial balance to swap the floating interest rate of LIBOR plus 1.75% to a fixed rate of 3.7375%. The principal balance as of August 31, 2016 was \$184.2 million.

Other term loans with an aggregate balance of \$0.7 million as of August 31, 2016 and a maturity date of February 2018.

The notes payable, along with the revolving and operating lines of credit, contain certain covenants with respect to the Company and various subsidiaries, the most restrictive of which, among other things, limit the ability to: incur additional indebtedness or guarantees; pay dividends or repurchase stock; enter into sale leaseback transactions; create liens; sell assets; engage in transactions with affiliates, including joint ventures and non U.S. subsidiaries, including but not limited to loans, advances, equity investments and guarantees; enter into mergers, consolidations or sales of substantially all the Company's assets; and enter into new lines of business. The covenants also require certain maximum ratios of debt to total capitalization and minimum levels of fixed charges (interest and rent) coverage.

Principal payments on the notes payable are expected as follows:

(In thousands)

| | |
|------------------------|------------|
| Year ending August 31, | |
| 2017 | \$ 7,437 |
| 2018 ⁽¹⁾ | 126,282 |
| 2019 | 7,000 |
| 2020 | 163,250 |
| 2021 | |
| Thereafter | |
| | \$ 303,969 |

⁽¹⁾The repayment of the \$119.1 million of Convertible senior notes due 2018 is assumed to occur at the scheduled maturity in 2018 instead of assuming an earlier conversion by the holders.

Note 14 - Derivative Instruments

Foreign operations give rise to market risks from changes in foreign currency exchange rates. Foreign currency forward exchange contracts with established financial institutions are utilized to hedge a portion of that risk. Interest rate swap agreements are used to reduce the impact of changes in interest rates on certain debt. The Company's foreign currency forward exchange contracts and interest rate swap agreements are designated as cash flow hedges, and therefore the effective portion of unrealized gains and losses is recorded in accumulated other comprehensive income or loss.

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At August 31, 2016 exchange rates, forward exchange contracts for the purchase of Polish Zlotys and the sale of Euros and U.S. Dollars; and for the purchase of U.S. Dollars and the sale of Saudi Riyals aggregated to \$405.2 million. The fair value of the contracts is included on the Consolidated Balance Sheets as Accounts payable and accrued liabilities when there is a loss, or as Accounts receivable, net when there is a gain. As the contracts mature at various dates through September 2018, any such gain or loss remaining will be recognized in manufacturing revenue or cost of revenue along with the related transactions. In the event that the underlying transaction does not occur or does not occur in the period designated at the inception of the hedge, the amount classified in accumulated other comprehensive loss would be reclassified to the results of operations in Interest and foreign exchange at the time of occurrence. At August 31, 2016 exchange rates, approximately \$2.5 million would be reclassified to revenue in the next 12 months.

At August 31, 2016, an interest rate swap agreement maturing in March 2020 had a notional amount of \$92.1 million. The fair value of the contract is included in Accounts payable and accrued liabilities on the Consolidated Balance Sheets. As interest expense on the underlying debt is recognized, amounts corresponding to the interest rate swap are reclassified from Accumulated other comprehensive loss and charged or credited to interest expense. At August 31, 2016 interest rates, approximately \$1.3 million would be reclassified to interest expense in the next 12 months.

Fair Values of Derivative Instruments

| | Asset Derivatives | | | Liability Derivatives | | |
|--|-----------------------------------|-----------------|-----------------|--|-----------------|-----------------|
| | Balance sheet location | August 31, | | Balance sheet location | August 31, | |
| | | 2016 Fair Value | 2015 Fair Value | | 2016 Fair Value | 2015 Fair Value |
| <i>(In thousands)</i> | | | | | | |
| Derivatives designated as hedging instruments | | | | | | |
| Foreign forward exchange contracts | Accounts receivable, net | \$ 1,570 | \$ 1,820 | Accounts payable and accrued liabilities | \$ 4,287 | \$ 737 |
| Interest rate swap contracts | Intangibles and other assets, net | | | Accounts payable and accrued liabilities | 3,157 | 2,393 |
| | | \$ 1,570 | \$ 1,820 | | \$ 7,444 | \$ 3,130 |
| Derivatives not designated as hedging instruments | | | | | | |
| Foreign forward exchange contracts | Accounts receivable, net | \$ 25 | \$ 93 | Accounts payable and accrued liabilities | \$ 22 | \$ 76 |

The Effect of Derivative Instruments on the Consolidated Statements of Income

| Derivatives in cash flow hedging relationships | Location of gain (loss) recognized in income on derivative | Gain (loss) recognized in income on derivative | |
|--|--|--|----------|
| | | Years ended August 31, | |
| | | 2016 | 2015 |
| Foreign forward exchange contract | Interest and foreign exchange | \$ 336 | \$ (366) |
| Interest rate swap contracts | Interest and foreign exchange | 90 | 60 |
| | | \$ 426 | \$ (306) |

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| Derivatives in cash flow hedging relationships | Gain (loss) recognized in OCI on derivatives (effective portion) | | Location of gain (loss) reclassified from accumulated OCI into income | Gain (loss) reclassified from accumulated OCI into income (effective portion) | | Location of gain (loss) in income on derivative (ineffective portion and amount excluded from effectiveness testing) | Gain recognized on derivative (ineffective portion and amount excluded from effectiveness testing) | |
|---|---|------------|---|---|------------|---|--|----------|
| | Years ended August 31, | | | Years ended August 31, | | | Years ended August 31, | |
| | 2016 | 2015 | | 2016 | 2015 | | 2016 | 2015 |
| Foreign forward exchange contracts | \$ (4,698) | \$ 457 | Revenue | \$ (1,224) | \$ 457 | Revenue | \$ 138 | \$ 2,843 |
| Foreign forward exchange contracts | (944) | | Cost of revenue | (911) | | Cost of revenue | 121 | |
| Interest rate swap contracts | (2,354) | (2,936) | Interest and foreign exchange | (1,561) | (1,786) | Interest and foreign exchange | | |
| | \$ (7,996) | \$ (2,479) | | \$ (3,696) | \$ (1,329) | | \$ 259 | \$ 2,843 |

Note 15 - EquityStock Incentive Plan

The 2014 Amended and Restated Stock Incentive Plan provides for the grant of incentive stock options, non-statutory stock options, restricted shares, restricted stock units and stock appreciation rights. The maximum aggregate number of the Company's common shares authorized for issuance is 4,325,000. On August 31, 2016 there were 476,770 shares available for grant compared to 905,139 and 1,144,143 shares available for grant as of the years ended August 31, 2015 and 2014. There are no stock options or stock appreciation rights outstanding as of August 31, 2016. The Company currently grants restricted shares and restricted stock units. Restricted share grants are considered outstanding shares of common stock at the time they are issued. The holders of unvested restricted shares are entitled to voting rights and participation in dividends. The dividends are not forfeitable if the awards are later forfeited prior to vesting. Shares associated with restricted stock unit awards are not considered legally outstanding shares of common stock until vested. Restricted stock unit awards, including performance-based awards, are entitled to participate in dividends and these awards are considered participating securities and are considered outstanding for earnings per share purposes when the effect is dilutive.

During the years ended August 31, 2016, 2015 and 2014, the Company awarded restricted share and restricted stock unit grants totaling 447,895, 402,196 and 269,665 shares which include performance-based grants. As of August 31, 2016, there were a total of 495,137 shares associated with unvested performance-based grants. The actual number of shares that will vest associated with performance-based grants will vary depending on the Company's performance. Approximately 495,137 additional shares may be granted if performance-based restricted stock unit awards vest at stretch levels of performance. These additional shares are associated with restricted stock unit awards granted during the years ended August 31, 2016, 2015 and 2014. The fair value of awards granted was \$12.5 million, \$24.6 million and \$13.1 million for the years ended August 31, 2016, 2015 and 2014.

The value, at the date of grant, of stock awarded under restricted share grants and restricted stock unit grants is amortized as compensation expense over the lesser of the vesting period of one to three years or to the recipients eligible retirement date. Compensation expense recognized related to restricted share grants and restricted stock unit grants for the years ended August 31, 2016, 2015 and 2014 was \$22.5 million, \$19.5 million and \$11.3 million and was recorded in Selling and administrative and Cost of Revenue on the Consolidated Statements of Income. Unamortized compensation cost related to restricted stock grants was \$22.3 million as of August 31, 2016.

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The unvested restricted share and restricted stock unit grants were 902,068 and 815,496 as of August 31, 2016 and 2015. The following table summarizes restricted share and restricted stock unit grant transactions for shares, both vested and unvested, under the 2014 Amended and Restated Stock Incentive Plan:

| | Shares |
|---|---------------|
| Balance at August 31, 2013 ⁽¹⁾ | 2,940,003 |
| Granted | 269,665 |
| Forfeited | (28,811) |
| Balance at August 31, 2014 ⁽¹⁾ | 3,180,857 |
| Granted | 402,196 |
| Forfeited | (163,192) |
| Balance at August 31, 2015 ⁽¹⁾ | 3,419,861 |
| Granted | 447,895 |
| Forfeited | (19,526) |
| Balance at August 31, 2016 ⁽¹⁾ | 3,848,230 |

(1) Balance represents cumulative grants net of forfeitures.

Share Repurchase Program

Since October 2013, the Board of Directors has authorized the Company to repurchase in aggregate up to \$225 million of the Company's common stock. The program may be modified, suspended or discontinued at any time without prior notice. Under the share repurchase program, shares of common stock may be purchased on the open market or through privately negotiated transactions from time-to-time. The timing and amount of purchases will be based upon market conditions, securities law limitations and other factors. The share repurchase program does not obligate the Company to acquire any specific number of shares in any period.

During the year ended August 31, 2016 and August 31, 2015, the Company repurchased a total of 1,054,687 shares for approximately \$32.4 million and 1,386,993 shares for approximately \$70.2 million, respectively, under these share repurchase programs. As of August 31, 2016 the Company had cumulatively repurchased 3,206,226 shares for approximately \$137.0 million and had \$88.0 million available under the share repurchase program which has an expiration date of January 1, 2018.

Note 16 - Earnings per Share

The shares used in the computation of the Company's basic and diluted earnings per common share are reconciled as follows:

| <i>(In thousands)</i> | Years ended August 31, | | |
|--|-------------------------------|-------------|-------------|
| | 2016 | 2015 | 2014 |
| Weighted average basic common shares outstanding ⁽¹⁾ | 29,156 | 28,151 | 28,164 |
| Dilutive effect of 2018 Convertible notes ⁽²⁾ | 3,214 | 5,130 | 6,045 |
| Dilutive effect of 2026 Convertible notes ⁽³⁾ | | 2 | |
| Dilutive effect of performance based restricted stock units ⁽⁴⁾ | 98 | 45 | |
| Weighted average diluted common shares outstanding | 32,468 | 33,328 | 34,209 |

(1) Restricted stock grants and restricted stock units, including some grants subject to certain performance criteria, are included in weighted average basic common shares outstanding when the Company is in a net earnings position. No restricted stock and restricted stock units were anti-dilutive for the years ended August 31, 2016, 2015 and 2014.

(2)

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The dilutive effect of the 2018 Convertible notes was included for the years ended August, 2016, 2015 and 2014 as they were considered dilutive under the if converted method as further discussed below.

(3) The 2026 Convertible notes were retired during 2016. The effect of the 2026 Convertible notes was excluded for the years ended August 31, 2016 and 2014 as the average stock price was less than \$48.05 and therefore the notes were considered anti-dilutive. The dilutive effect of the 2026 Convertible notes was included for the year ended August 31, 2015 as the average stock price was greater than \$48.05, as further described below.

(4) Restricted stock units that are subject to performance criteria, for which actual levels of performance above target have been achieved, are included in weighted average diluted common shares outstanding when the Company is in a net earnings position.

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Dilutive EPS is calculated using the more dilutive of two approaches. The first approach includes the dilutive effect, using the treasury stock method, associated with shares underlying the 2026 Convertible notes and performance based restricted stock units that are subject to performance criteria, for which actual levels of performance above target have been achieved. The second approach supplements the first by including the if converted effect of the 2018 Convertible notes issued in March 2011. Under the if converted method, debt issuance and interest costs, both net of tax, associated with the convertible notes are added back to net earnings and the share count is increased by the shares underlying the convertible notes. The 2026 Convertible notes are included in the calculation of both approaches using the treasury stock method when the average stock price is greater than the applicable conversion price.

| | Years ended August 31, | | |
|--|------------------------|------------|------------|
| | 2016 | 2015 | 2014 |
| Net earnings attributable to Greenbrier | \$ 183,213 | \$ 192,832 | \$ 111,919 |
| Add back: | | | |
| Interest and debt issuance costs on the 2018 Convertible notes, net of tax | 2,695 | 4,818 | 5,664 |
| Earnings before interest and debt issuance costs on convertible notes | \$ 185,908 | \$ 197,650 | \$ 117,583 |
| Weighted average diluted common shares outstanding | 32,468 | 33,328 | 34,209 |
| Diluted earnings per share ⁽¹⁾ | \$ 5.73 | \$ 5.93 | \$ 3.44 |

(1) Diluted earnings per share was calculated as follows:

Earnings before interest and debt issuance costs on convertible notes

Weighted average diluted common shares outstanding

Note 17 - Related Party Transactions

In July 2014, the Company and Watco completed the formation of GBW, an unconsolidated 50/50 joint venture. The Company accounts for its interest in GBW under the equity method of accounting. The Company leases real and personal property to GBW with lease revenue totaling \$4.9 million for the years ended August 31, 2016 and 2015. The Company sold wheel sets and components to GBW which totaled \$28.5 million and \$25.4 million for the years ended August 31, 2016 and 2015, respectively. GBW provided Repair services to the Company which totaled \$1.3 million and \$2.4 million for the years ended August 31, 2016 and 2015, respectively. As of August 31, 2016, the Company had a \$36.5 million note receivable balance from GBW.

In April 2010, WLR Greenbrier Rail Inc. (WLR-GBX) was formed and acquired a lease fleet of nearly 4,000 railcars valued at approximately \$256.0 million. WLR-GBX is wholly owned by affiliates of WL Ross & Co, LLC (WL Ross) and a member of the Company's board of directors, Wendy Teramoto, is also an affiliate of WL Ross. In September 2015, the Company purchased the entire remaining WLR-GBX lease fleet of 3,885 railcars for approximately \$148.0 million plus a \$1.0 million fee with the intent to sell the railcars and underlying attached leases to third parties in the short-term and therefore has classified these railcars as Leased railcars for syndication on the Company's Consolidated Balance Sheet. The transaction was approved by the Company's disinterested, independent directors. During the year ended August 31, 2016, the Company sold to third parties 3,406 of these railcars with the underlying leases attached for \$167.2 million. The Company recognized revenue on 3,017 of these railcars for \$159.4 million and deferred revenue recognition on 389 of these railcars for \$7.8 million due to the Company's continuing involvement. The remaining 479 railcars are anticipated to be sold or disposed of in the next year. The Company and WL Ross have agreed that the Company will receive a preferred return on the proceeds of the sale of the portfolio, after which it will share a portion of the profits with WL Ross up to certain defined levels. The Company is first entitled to recoup its assumed equity portion of its investment plus a rate of return of 25%. The Company and WL Ross will then share in the profits up to certain defined levels. Once those defined levels have been met, the Company is entitled to receive 100% of the remaining profits. During the year ended August 31, 2016, the Company paid a total of \$7.2 million to WL Ross pursuant to this profit sharing agreement and as of August 31, 2016 has accrued an additional \$8.7 million that it anticipates will be paid to WL Ross in the future.

William Furman, Chairman of the Board, President and Chief Executive Officer of the Company, also served as director of Schnitzer Steel Industries, Inc. (Schnitzer) until January 2016. In the normal course of business, the

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Company sells scrap metal to Schnitzer. During the years ended August 31, 2016, 2015 and 2014, the Company sold scrap metal to Schnitzer totaling \$2.0 million, \$3.5 million and \$3.0 million, respectively.

Mr. Furman is the owner of a private aircraft managed by a private independent management company. From time to time, the Company's business requires charter use of privately-owned aircraft. In such instances, it is possible that charters may be placed on Mr. Furman's aircraft. The Company placed charters on Mr. Furman's aircraft aggregating \$0.8 million, \$0.5 million and \$0.5 million for each of the years ended August 31, 2016, 2015 and 2014, respectively.

Note 18 - Income Taxes

Components of income tax expense of continuing operations were as follows:

| <i>(In thousands)</i> | Years ended August 31, | | |
|-------------------------------|------------------------|------------|-----------|
| | 2016 | 2015 | 2014 |
| Current | | | |
| Federal | \$ 66,455 | \$ 92,525 | \$ 49,795 |
| State | 4,595 | 6,349 | 3,791 |
| Foreign | 50,299 | 32,748 | 23,229 |
| | 121,349 | 131,622 | 76,815 |
| Deferred | | | |
| Federal | (6,199) | (13,565) | (79) |
| State | (1,174) | (1,112) | (1,142) |
| Foreign | (1,644) | (4,423) | (3,148) |
| | (9,017) | (19,100) | (4,369) |
| Change in valuation allowance | (10) | (362) | (45) |
| Income Tax Expense | \$ 112,322 | \$ 112,160 | \$ 72,401 |

Income tax expense is computed at rates different from statutory rates. The reconciliation between effective and statutory tax rates on operations is as follows:

| | Years ended August 31, | | |
|---|------------------------|-------|-------|
| | 2016 | 2015 | 2014 |
| Federal statutory rate | 35.0% | 35.0% | 35.0% |
| State income taxes, net of federal benefit | 0.7 | 1.0 | 1.3 |
| Impact of foreign operations | 0.1 | (0.5) | (0.8) |
| Change in valuation allowance related to deferred tax asset | | (0.1) | |
| Noncontrolling interest in flow-through entity | (7.4) | (5.7) | (5.3) |
| Permanent differences and other | | 0.2 | 0.7 |
| Non-deductible goodwill | | | 1.9 |
| Effective Tax Rate | 28.4% | 29.9% | 32.8% |

Earnings before income tax and earnings from unconsolidated affiliates for the years ended August 31, 2016, 2015 and 2014 were \$264.8 million, \$292.6 million and \$161.1 million, respectively, for our domestic U.S. operations and \$130.3 million, \$83.1 million and \$59.7 million, respectively, for our foreign operations.

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The tax effects of temporary differences that give rise to significant portions of deferred tax assets and deferred tax liabilities were as follows:

| <i>(In thousands)</i> | As of August 31, | |
|---|-------------------------|-------------|
| | 2016 | 2015 |
| Deferred tax assets: | | |
| Accrued payroll and related liabilities | \$ 26,384 | \$ 21,083 |
| Deferred revenue | 18,533 | 7,575 |
| Maintenance and warranty accruals | 10,604 | 11,037 |
| Inventories and other | 7,599 | 9,612 |
| Derivative instruments and translation adjustment | 1,153 | 858 |
| Investment and asset tax credits | 511 | 776 |
| Net operating losses | 429 | 689 |
| Contract placement | | 1,828 |
| | 65,213 | 53,458 |
| Deferred tax liabilities: | | |
| Fixed assets | 97,490 | 87,031 |
| Investment in GBW Joint Venture | 16,144 | 16,356 |
| Original issue discount | | 4,036 |
| Intangibles | 3,212 | 3,030 |
| Deferred gain on redemption of debt | 1,718 | 2,611 |
| Other | (2,344) | 357 |
| | 116,220 | 113,421 |
| Valuation allowance | 612 | 694 |
| Net deferred tax liability | \$ 51,619 | \$ 60,657 |

As of August 31, 2016 the Company had \$0.7 million of state net operating loss (NOL) carryforwards that will begin to expire in 2020, \$0.4 million of state credit carryforwards that will begin to expire in 2021, and \$3.7 million of foreign NOL carryforwards that will begin to expire in 2017. The Company has placed valuation allowances against any deferred tax assets for which no benefit is anticipated, including those for loss and credit carryforwards likely to expire before their expiration dates. The net decrease in the total valuation allowance was approximately \$0.1 million for the year ended August 31, 2016. The Company uses tax law ordering for purposes of determining when excess tax benefits have been realized. During the current year the Company also realized excess tax benefits of \$2.8 million from the vesting of restricted stock awards.

The net decrease in the total valuation allowance on deferred taxes for which no benefit is anticipated was approximately \$0.1 million for the year ended August 31, 2016.

No provision has been made for U.S. income taxes on approximately \$160.1 million of cumulative undistributed earnings of certain foreign subsidiaries because the Company plans to reinvest these earnings indefinitely in operations outside the U.S. Generally, such amounts become subject to U.S. taxation upon the remittance of dividends and under certain other circumstances. It is not practicable to estimate the amount of deferred tax liability related to investments in foreign subsidiaries.

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The following is a tabular reconciliation of the total amounts of unrecognized tax benefits:

| <i>(In thousands)</i> | | Years ended August 31, | | |
|---------------------------------|-------------------------------|------------------------|----------|----------|
| | | 2016 | 2015 | 2014 |
| Unrecognized Tax Benefit | Opening Balance | \$ 1,275 | \$ 1,268 | \$ 1,289 |
| Gross increases | tax positions in prior period | 22 | 18 | 18 |
| Gross decreases | tax positions in prior period | | | |
| Settlements | | | | |
| Lapse of statute of limitations | | (124) | (11) | (39) |
| Unrecognized Tax Benefit | Ending Balance | \$ 1,173 | \$ 1,275 | \$ 1,268 |

The Company is subject to taxation in the U.S. and in various states and foreign jurisdictions. The Company is no longer subject to U.S. Federal examination for fiscal years ending before 2013, to state and local examinations before 2012, or to foreign examinations before 2011.

Unrecognized tax benefits, excluding interest, at August 31, 2016 were \$0.9 million, of which \$0.6 million, if recognized, would affect the effective tax rate. The unrecognized tax benefits at August 31, 2015 were \$1.0 million. Accrued interest on reserves for uncertain tax positions as of August 31, 2016 and 2015 was \$0.2 million and \$0.3 million, respectively. The Company recorded annual interest benefits of less than \$0.1 million for changes in the reserves during each of the years ended August 31, 2016 and 2015. The Company had not accrued any penalties on the reserves. Interest and penalties related to income taxes are not classified as a component of income tax expense. Benefits from the realization of unrecognized tax benefits for deductible differences attributable to ordinary operations will be recognized as a reduction of income tax expense. The Company does not anticipate a significant decrease in the reserves for uncertain tax positions during the next twelve months.

Note 19 - Segment Information

Greenbrier operates in four reportable segments: Manufacturing; Wheels & Parts; Leasing & Services; and GBW Joint Venture. The results of GBW Joint Venture are included as part of Earnings from unconsolidated affiliates as the Company accounts for its interest in GBW Railcar Services LLC (GBW) under the equity method of accounting.

The accounting policies of the segments are the same as those described in the summary of significant accounting policies. Performance is evaluated based on Earnings from operations. Corporate includes selling and administrative costs not directly related to goods and services and certain costs that are intertwined among segments due to our integrated business model. The Company does not allocate Interest and foreign exchange or Income tax expense for either external or internal reporting purposes. Intersegment sales and transfers are valued as if the sales or transfers were to third parties. Related revenue and margin are eliminated in consolidation and therefore are not included in consolidated results in the Company's Consolidated Financial Statements.

The information in the following table is derived directly from the segments' internal financial reports used for corporate management purposes. The results of operations for the GBW Joint Venture are not reflected in the tables below as the investment is accounted for under the equity method of accounting.

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For the year ended August 31, 2016:

| | Revenue | | | Earnings (loss) from operations | | |
|--------------------|--------------|--------------|--------------|---------------------------------|--------------|------------|
| | External | Intersegment | Total | External | Intersegment | Total |
| Manufacturing | \$ 2,096,331 | \$ 89,158 | \$ 2,185,489 | \$ 415,094 | \$ 24,299 | \$ 439,393 |
| Wheels & Parts | 322,395 | 32,436 | 354,831 | 19,948 | 2,602 | 22,550 |
| Leasing & Services | 260,798 | 13,101 | 273,899 | 51,723 | 13,101 | 64,824 |
| Eliminations | | (134,695) | (134,695) | | (40,002) | (40,002) |
| Corporate | | | | (78,213) | | (78,213) |
| | \$ 2,679,524 | \$ | \$ 2,679,524 | \$ 408,552 | \$ | \$ 408,552 |

For the year ended August 31, 2015:

| | Revenue | | | Earnings (loss) from operations | | |
|--------------------|--------------|--------------|--------------|---------------------------------|--------------|------------|
| | External | Intersegment | Total | External | Intersegment | Total |
| Manufacturing | \$ 2,136,051 | \$ 7,534 | \$ 2,143,585 | \$ 396,921 | \$ 795 | \$ 397,716 |
| Wheels & Parts | 371,237 | 27,257 | 398,494 | 27,563 | 2,629 | 30,192 |
| Leasing & Services | 97,990 | 62,600 | 160,590 | 41,887 | 62,600 | 104,487 |
| Eliminations | | (97,391) | (97,391) | | (66,024) | (66,024) |
| Corporate | | | | (79,479) | | (79,479) |
| | \$ 2,605,278 | \$ | \$ 2,605,278 | \$ 386,892 | \$ | \$ 386,892 |

For the year ended August 31, 2014:

| | Revenue | | | Earnings (loss) from operations | | |
|--------------------|--------------|--------------|--------------|---------------------------------|--------------|------------|
| | External | Intersegment | Total | External | Intersegment | Total |
| Manufacturing | \$ 1,624,916 | \$ 790 | \$ 1,625,706 | \$ 202,555 | \$ 61 | \$ 202,616 |
| Wheels & Parts | 495,627 | 11,833 | 507,460 | 40,597 | 442 | 41,039 |
| Leasing & Services | 83,419 | 25,973 | 109,392 | 41,055 | 25,973 | 67,028 |
| Eliminations | | (38,596) | (38,596) | | (26,476) | (26,476) |
| Corporate | | | | (44,687) | | (44,687) |
| | \$ 2,203,962 | \$ | \$ 2,203,962 | \$ 239,520 | \$ | \$ 239,520 |

| <i>(In thousands)</i> | Years ended August 31, | | |
|-----------------------|------------------------|--------------|--------------|
| | 2016 | 2015 | 2014 |
| Assets: | | | |
| Manufacturing | \$ 701,296 | \$ 675,409 | \$ 521,711 |
| Wheels & Parts | 275,599 | 291,798 | 298,009 |
| Leasing & Services | 518,263 | 549,073 | 436,075 |
| Unallocated | 342,732 | 274,232 | 261,373 |
| | \$ 1,837,890 | \$ 1,790,512 | \$ 1,517,168 |

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Depreciation and amortization:

| | | | |
|--------------------|-----------|-----------|-----------|
| Manufacturing | \$ 27,137 | \$ 20,668 | \$ 15,341 |
| Wheels & Parts | 11,971 | 11,748 | 12,582 |
| Leasing & Services | 24,237 | 12,740 | 12,499 |
| | \$ 63,345 | \$ 45,156 | \$ 40,422 |

Capital expenditures:

| | | | |
|--------------------|------------|------------|-----------|
| Manufacturing | \$ 51,294 | \$ 84,354 | \$ 55,979 |
| Wheels & Parts | 10,190 | 9,381 | 8,774 |
| Leasing & Services | 77,529 | 12,254 | 5,474 |
| | \$ 139,013 | \$ 105,989 | \$ 70,227 |

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The following table summarizes selected geographic information.

| <i>(In thousands)</i> | Years ended August 31, | | |
|--------------------------------|------------------------|--------------|--------------|
| | 2016 | 2015 | 2014 |
| Revenue ⁽¹⁾: | | | |
| U.S. | \$ 2,297,501 | \$ 2,404,266 | \$ 1,998,579 |
| Foreign | 382,023 | 201,012 | 205,383 |
| | \$ 2,679,524 | \$ 2,605,278 | \$ 2,203,962 |
| Identifiable assets: | | | |
| U.S. | \$ 957,790 | \$ 1,184,811 | \$ 1,115,473 |
| Mexico | 788,878 | 524,724 | 321,391 |
| Europe | 91,222 | 80,977 | 80,304 |
| | \$ 1,837,890 | \$ 1,790,512 | \$ 1,517,168 |

⁽¹⁾ Revenue is presented on the basis of geographic location of customers.

Reconciliation of Earnings from operations to Earnings before income tax and earnings from unconsolidated affiliates:

| <i>(In thousands)</i> | Years ended August 31, | | |
|---|------------------------|------------|------------|
| | 2016 | 2015 | 2014 |
| Earnings from operations | \$ 408,552 | \$ 386,892 | \$ 239,520 |
| Interest and foreign exchange | 13,502 | 11,179 | 18,695 |
| Earnings before income tax and earnings from unconsolidated affiliates | \$ 395,050 | \$ 375,713 | \$ 220,825 |

The results of operations for the GBW Joint Venture are accounted for under the equity method of accounting. The GBW Joint Venture is the Company's fourth reportable segment and information for 2016, 2015 and 2014 are included in the tables below.

| <i>(In thousands)</i> | Years ended August 31, | | |
|---------------------------------|------------------------|------------|---------------------|
| | 2016 | 2015 | 2014 ⁽¹⁾ |
| GBW Joint Venture: | | | |
| Revenue | \$ 373,490 | \$ 349,849 | \$ 38,549 |
| Earnings (loss) from operations | \$ 8,558 | \$ (1,160) | \$ 702 |
| Assets ⁽²⁾ | \$ 247,610 | \$ 239,871 | \$ 210,631 |
| Depreciation and amortization | \$ 7,676 | \$ 4,590 | \$ 470 |
| Capital expenditures | \$ 16,110 | \$ 26,396 | \$ 1,255 |

⁽¹⁾ 2014 includes activity after July 18, 2014, the date GBW was formed.

⁽²⁾ Includes goodwill and intangible assets of \$93.4 million, \$96.9 million and \$100.2 million as of August 31, 2016, 2015 and 2014.

Note 20 - Customer Concentration

Customer concentration is defined as a single customer that accounts for more than 10% of total revenues or accounts receivable. In 2016, revenue from two customers represented 17% and 14% of total revenue. In 2015, revenue from one customer represented 17% of total revenue. In 2014, revenue from two customers represented 24% and 17% of total revenue, respectively. No other customers accounted for more than 10% of total revenues for the years ended August 31, 2016, 2015, or 2014. Two customers had balances that individually equaled or exceeded 10% of accounts receivable and represented 23% and 11% of the consolidated accounts receivable balance at August 31, 2016. Two customers had balances that individually equaled or exceeded 10% of accounts receivable and represented 28% and 12% of the consolidated accounts receivable balance at August 31, 2015.

Table of Contents**Note 21 - Lease Commitments**

Lease expense for railcar equipment leased-in under non-cancelable leases was \$6.6 million, \$6.3 million and \$6.8 million for the years ended August 31, 2016, 2015 and 2014. Aggregate minimum future amounts payable under these non-cancelable railcar equipment leases are as follows:

(In thousands)

| Year ending August 31, | |
|------------------------|-----------|
| 2017 | \$ 6,756 |
| 2018 | 6,158 |
| 2019 | 5,022 |
| 2020 | 4,056 |
| 2021 | 1,181 |
| Thereafter | 3,817 |
| | \$ 26,990 |

Operating leases for domestic railcar repair facilities, office space and certain manufacturing and office equipment expire at various dates through May 2022. Rental expense for facilities, office space and equipment was \$9.3 million, \$9.3 million and \$12.3 million for the years ended August 31, 2016, 2015 and 2014. Aggregate minimum future amounts payable under these non-cancelable operating leases are as follows:

(In thousands)

| Year ending August 31, | |
|------------------------|----------|
| 2017 | \$ 4,716 |
| 2018 | 3,241 |
| 2019 | 2,960 |
| 2020 | 2,773 |
| 2021 | 1,644 |
| Thereafter | 340 |
| | 15,674 |

Note 22 - Commitments and Contingencies

The Company's Portland, Oregon manufacturing facility is located adjacent to the Willamette River. The Company has entered into a Voluntary Cleanup Agreement with the Oregon Department of Environmental Quality (DEQ) in which the Company agreed to conduct an investigation of whether, and to what extent, past or present operations at the Portland property may have released hazardous substances into the environment.

In December 2000, the U.S. Environmental Protection Agency (EPA) classified portions of the Willamette River bed known as the Portland Harbor, including the portion fronting the Company's manufacturing facility, as a federal National Priority List or Superfund site due to sediment contamination (the Portland Harbor Site). The Company and more than 140 other parties have received a General Notice of potential liability from the EPA relating to the Portland Harbor Site. The letter advised the Company that it may be liable for the costs of investigation and remediation (which liability may be joint and several with other potentially responsible parties) as well as for natural resource damages resulting from releases of hazardous substances to the site. At this time, ten private and public entities, including the Company (the Lower Willamette Group or LWG), have signed an Administrative Order on Consent (AOC) to perform a remedial investigation/feasibility study (RI/FS) of the Portland Harbor Site under EPA oversight, and several additional entities have not signed such consent, but are nevertheless contributing money to the effort. The EPA-mandated RI/FS is being produced by the LWG and has cost over \$110 million during a 15-year period. The Company has agreed to initially bear a percentage of the total costs incurred by the LWG in connection with the investigation. The Company's aggregate expenditure has not been material during the 15-year period. Some or all of any such outlay may be recoverable from other responsible parties.

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Eighty-three parties, including the State of Oregon and the federal government, have entered into a non-judicial mediation process to try to allocate costs associated with the Portland Harbor site. Approximately 110 additional parties have signed tolling agreements related to such allocations. On April 23, 2009, the Company and the other AOC signatories filed suit against 69 other parties due to a possible limitations period for some such claims; *Arkema Inc. et al v. A & C Foundry Products, Inc. et al*, U.S. District Court, District of Oregon, Case #3:09-cv-453-PK. All but 12 of these parties elected to sign tolling agreements and be dismissed without prejudice, and the case has now been stayed by the court, pending the EPA's Record of Decision, currently scheduled by the EPA for December 31, 2016.

On June 8, 2016, the EPA issued its Feasibility Study (FS) and Proposed Plan for the Portland Harbor Site. The EPA accepted comments from the public on its Proposed Plan through September 6, 2016. The EPA's FS includes remediation alternatives that would take from 4 to 62 years of active remediation, with an estimated undiscounted cost ranging from \$642 million to \$10.2 billion and a net present value assuming a 7% discount rate ranging between \$451 million and \$9.4 billion. The Proposed Plan identifies the alternative currently favored by the EPA, which it assigns an estimated undiscounted cost of between \$1.1 and \$1.2 billion and a net present value of between \$746 and \$811 million. The EPA expects its cost estimates to be accurate within a range of +50 to -30 percent. The EPA estimates that the remedy in the Proposed Plan would take 7 years of active remediation followed by 30 years of monitoring. The EPA's FS and its Proposed Plan identify 13 Sediment Decision Units. One of the units, RM9W, includes the nearshore area of the river sediments offshore of the Company's Portland, Oregon manufacturing facility as well as upstream and downstream of the facility. It also includes a portion of our riverbank. Neither the FS nor the Proposed Plan breaks down total remediation costs by unit.

Neither the EPA's FS nor its Proposed Plan addresses responsibility for the costs of clean-up, allocates such costs among the potentially responsible parties, or defines precise boundaries for the cleanup. Responsibility for funding and implementing the EPA's selected cleanup option will be determined after the issuance of the Record of Decision, currently scheduled by the EPA for December 31, 2016. Based on the investigation to date, the Company believes that it did not contribute in any material way to contamination in the river sediments or the damage of natural resources in the Portland Harbor Site and that the damage in the area of the Portland Harbor Site adjacent to its property precedes its ownership of the Portland, Oregon manufacturing facility. Because these environmental investigations are still underway, sufficient information is currently not available to determine the Company's liability, if any, for the cost of any required remediation or restoration of the Portland Harbor Site or to estimate a range of potential loss. Based on the results of the pending investigations and future assessments of natural resource damages, the Company may be required to incur costs associated with additional phases of investigation or remedial action, and may be liable for damages to natural resources. In addition, the Company may be required to perform periodic maintenance dredging in order to continue to launch vessels from its launch ways in Portland, Oregon, on the Willamette River, and the river's classification as a Superfund site could result in some limitations on future dredging and launch activities. Any of these matters could adversely affect the Company's business and Consolidated Financial Statements, or the value of its Portland property.

The Company has also signed an Order on Consent with the DEQ to finalize the investigation of potential onsite sources of contamination that may have a release pathway to the Willamette River. Interim precautionary measures are also required in the order and the Company is currently discussing with the DEQ potential remedial actions which may be required. Our aggregate expenditure has not been material, however the Company could incur significant expenses for remediation. Some or all of any such outlay may be recoverable from other responsible parties.

From time to time, Greenbrier is involved as a defendant in litigation in the ordinary course of business, the outcome of which cannot be predicted with certainty. While the ultimate outcome of such legal proceedings cannot be determined at this time, management believes that the resolution of these actions will not have a material adverse effect on the Company's Consolidated Financial Statements.

In accordance with customary business practices in Europe, the Company has \$2.6 million in third party warranty guarantee facilities. To date no amounts have been drawn under these guarantee facilities.

As of August 31, 2016, the Mexican joint venture had \$0.7 million of third party debt outstanding, for which the Company and its joint venture partner had each guaranteed approximately \$0.3 million.

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As of August 31, 2016, the Company had outstanding letters of credit aggregating \$81.3 million associated with performance guarantees, facility leases and workers compensation insurance.

The Company made \$7.9 million in cash contributions and \$5.0 million in loans to GBW, an unconsolidated 50/50 joint venture, for the year ended August 31, 2016. The Company is likely to make additional capital contributions or loans to GBW in the future. As of August 31, 2016, the Company had a \$36.5 million note receivable balance from GBW which is included on the Consolidated Balance Sheet in Accounts receivable, net.

Note 23 - Fair Value of Financial Instruments

The estimated fair values of financial instruments and the methods and assumptions used to estimate such fair values are as follows:

| | Carrying Amount | Estimated Fair Value (Level 2) |
|-------------------------------------|--------------------|---|
| <i>(In thousands)</i> | | |
| Notes payable as of August 31, 2016 | \$ 303,969 | \$ 314,687 |
| Notes payable as of August 31, 2015 | \$ 326,429 | \$ 345,350 |

The carrying amount of cash and cash equivalents, accounts and notes receivable, revolving notes, accounts payable and accrued liabilities, foreign currency forward contracts and interest rate swaps is a reasonable estimate of fair value of these financial instruments. Estimated rates currently available to the Company for debt with similar terms and remaining maturities and current market data are used to estimate the fair value of notes payable.

Note 24 - Fair Value Measures

Certain assets and liabilities are reported at fair value on either a recurring or nonrecurring basis. Fair value, for this disclosure, is defined as an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants, under a three-tier fair value hierarchy which prioritizes the inputs used in measuring a fair value as follows:

| | |
|-----------|---|
| Level 1 - | observable inputs such as unadjusted quoted prices in active markets for identical instruments; |
| Level 2 - | inputs, other than the quoted market prices in active markets for similar instruments, which are observable, either directly or indirectly; and |
| Level 3 - | unobservable inputs for which there is little or no market data available, which require the reporting entity to develop its own assumptions. |

Assets and liabilities measured at fair value on a recurring basis as of August 31, 2016 are:

| <i>(In thousands)</i> | Total | Level 1 | Level 2 ⁽¹⁾ | Level 3 |
|---------------------------------------|-----------|-----------|------------------------|---------|
| Assets: | | | | |
| Derivative financial instruments | \$ 1,595 | \$ | \$ 1,595 | \$ |
| Nonqualified savings plan investments | 15,864 | 15,864 | | |
| Cash equivalents | 5,077 | 5,077 | | |
| | \$ 22,536 | \$ 20,941 | \$ 1,595 | \$ |

Liabilities:

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| | | | | |
|----------------------------------|----------|----|----------|----|
| Derivative financial instruments | \$ 7,466 | \$ | \$ 7,466 | \$ |
|----------------------------------|----------|----|----------|----|

(1) Level 2 assets include derivative financial instruments which are valued based on significant observable inputs. See Note 14 Derivative Instruments for further discussion.

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Assets and liabilities measured at fair value on a recurring basis as of August 31, 2015 are:

| <i>(In thousands)</i> | Total | Level 1 | Level 2⁽¹⁾ | Level 3 |
|---------------------------------------|--------------|----------------|------------------------------|----------------|
| Assets: | | | | |
| Derivative financial instruments | \$ 1,913 | \$ | \$ 1,913 | \$ |
| Nonqualified savings plan investments | 11,815 | 11,815 | | |
| Cash equivalents | 5,071 | 5,071 | | |
| | \$ 18,799 | \$ 16,886 | \$ 1,913 | \$ |
| Liabilities: | | | | |
| Derivative financial instruments | \$ 3,206 | \$ | \$ 3,206 | \$ |

(1) Level 2 assets include derivative financial instruments which are valued based on significant observable inputs. See Note 14 Derivative Instruments for further discussion.

Note 25 - Subsequent Event

In October 2016, the Company entered into an agreement with Astra Rail Management GmbH (Astra) to form a new company, Greenbrier-Astra Rail, which will create an end-to-end, Europe-based freight railcar manufacturing, engineering and repair business. The combined enterprise will be formed between Greenbrier's European operations headquartered in Swidnica, Poland and Astra Rail based in Germany and Arad, Romania. It will be led by an experienced Europe-based management team from both companies. Greenbrier-Astra Rail will offer manufacturing and service capability in Europe with greater scale and efficiency for current customers. It also provides the opportunity to pursue growth in railcar markets in the GCC nations and Eurasia. Greenbrier-Astra Rail will be controlled by Greenbrier with an approximate 75% interest. As partial consideration for its majority interest, Greenbrier will pay Astra Rail 30 million at closing and 30 million 12 months after closing. Greenbrier will provide a guarantee in connection with the 30 million to be paid to Astra twelve months after the closing. Closing of the transaction is contingent on, among other conditions, achieving antitrust approval in certain EU countries.

Table of Contents**Quarterly Results of Operations (Unaudited)**

| <i>(In thousands, except per share amount)</i> | First | Second | Third | Fourth | Total |
|---|--------------|---------------|--------------|---------------|--------------|
| 2016 | | | | | |
| Revenue | | | | | |
| Manufacturing | \$ 698,661 | \$ 454,531 | \$ 458,494 | \$ 484,645 | \$ 2,096,331 |
| Wheels & Parts | 78,729 | 90,458 | 78,417 | 74,791 | 322,395 |
| Leasing & Services | 24,999 | 124,090 | 75,955 | 35,754 | 260,798 |
| | 802,389 | 669,079 | 612,866 | 595,190 | 2,679,524 |
| Cost of revenue | | | | | |
| Manufacturing | 533,033 | 361,827 | 352,775 | 382,919 | 1,630,554 |
| Wheels & Parts | 73,002 | 81,388 | 69,818 | 69,543 | 293,751 |
| Leasing & Services | 11,589 | 105,973 | 63,175 | 23,045 | 203,782 |
| | 617,624 | 549,188 | 485,768 | 475,507 | 2,128,087 |
| Margin | 184,765 | 119,891 | 127,098 | 119,683 | 551,437 |
| Selling and administrative | 36,549 | 38,244 | 43,280 | 40,608 | 158,681 |
| Net gain on disposition of equipment | (269) | (10,746) | (311) | (4,470) | (15,796) |
| Earnings from operations | 148,485 | 92,393 | 84,129 | 83,545 | 408,552 |
| Other costs | | | | | |
| Interest and foreign exchange | 5,436 | 1,417 | 3,712 | 2,937 | 13,502 |
| Earnings before income tax and earnings (loss) from unconsolidated affiliates | 143,049 | 90,976 | 80,417 | 80,608 | 395,050 |
| Income tax expense | (44,719) | (25,734) | (22,449) | (19,420) | (112,322) |
| Earnings (loss) from unconsolidated affiliates | 383 | 974 | 1,564 | (825) | 2,096 |
| Net earnings | 98,713 | 66,216 | 59,532 | 60,363 | 284,824 |
| Net earnings attributable to noncontrolling interest | (29,280) | (21,348) | (24,180) | (26,803) | (101,611) |
| Net earnings attributable to Greenbrier | \$ 69,433 | \$ 44,868 | \$ 35,352 | \$ 33,560 | \$ 183,213 |
| Basic earnings per common share: ⁽¹⁾ | \$ 2.36 | \$ 1.54 | \$ 1.22 | \$ 1.15 | \$ 6.28 |
| Diluted earnings per common share: ⁽¹⁾ | \$ 2.15 | \$ 1.41 | \$ 1.12 | \$ 1.06 | \$ 5.73 |

(1) Quarterly amounts may not total to the year to date amount as each period is calculated discretely. Diluted earnings per common share includes the dilutive effect of the 2026 Convertible Notes using the treasury stock method when dilutive and the dilutive effect of shares underlying the 2018 Convertible Notes using the if converted method in which debt issuance and interest costs, net of tax, were added back to net earnings.

Table of Contents**Quarterly Results of Operations (Unaudited)***(In thousands, except per share amount)*

| | First | Second | Third | Fourth | Total |
|---|------------------|------------------|------------------|------------------|-------------------|
| 2015 | | | | | |
| Revenue | | | | | |
| Manufacturing | \$ 379,949 | \$ 505,241 | \$ 593,376 | \$ 657,485 | \$ 2,136,051 |
| Wheels & Parts | 86,624 | 102,640 | 97,407 | 84,566 | 371,237 |
| Leasing & Services | 28,485 | 22,268 | 23,823 | 23,414 | 97,990 |
| | 495,058 | 630,149 | 714,606 | 765,465 | 2,605,278 |
| Cost of revenue | | | | | |
| Manufacturing | 316,037 | 403,227 | 465,658 | 506,492 | 1,691,414 |
| Wheels & Parts | 76,872 | 92,768 | 89,645 | 75,395 | 334,680 |
| Leasing & Services | 14,081 | 8,844 | 10,017 | 8,889 | 41,831 |
| | 406,990 | 504,839 | 565,320 | 590,776 | 2,067,925 |
| Margin | | | | | |
| Selling and administrative | 88,068 | 125,310 | 149,286 | 174,689 | 537,353 |
| Net gain on disposition of equipment | 33,729 | 32,899 | 45,595 | 39,568 | 151,791 |
| | (83) | (121) | (720) | (406) | (1,330) |
| Earnings from operations | 54,422 | 92,532 | 104,411 | 135,527 | 386,892 |
| Other costs | | | | | |
| Interest and foreign exchange | 3,141 | 1,929 | 4,285 | 1,824 | 11,179 |
| Earnings before income tax and earnings (loss) from unconsolidated affiliates | 51,281 | 90,603 | 100,126 | 133,703 | 375,713 |
| Income tax expense | (16,054) | (29,372) | (30,783) | (35,951) | (112,160) |
| Earnings (loss) from unconsolidated affiliates | 755 | (185) | 982 | 204 | 1,756 |
| Net earnings | 35,982 | 61,046 | 70,325 | 97,956 | 265,309 |
| Net earnings attributable to noncontrolling interest | (3,196) | (10,695) | (27,514) | (31,072) | (72,477) |
| Net earnings attributable to Greenbrier | \$ 32,786 | \$ 50,351 | \$ 42,811 | \$ 66,884 | \$ 192,832 |
| Basic earnings per common share: ⁽¹⁾ | \$ 1.19 | \$ 1.86 | \$ 1.54 | \$ 2.23 | \$ 6.85 |
| Diluted earnings per common share: ⁽¹⁾ | \$ 1.01 | \$ 1.57 | \$ 1.33 | \$ 2.02 | \$ 5.93 |

⁽¹⁾ Quarterly amounts do not total to the year to date amount as each period is calculated discretely. Diluted earnings per common share includes the dilutive effect of the 2026 Convertible Notes using the treasury stock method when dilutive and the dilutive effect of shares underlying the 2018 Convertible Notes using the if converted method in which debt issuance and interest costs, net of tax, were added back to net earnings.

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**Item 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS
ON ACCOUNTING AND FINANCIAL DISCLOSURE**

None.

Item 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management has evaluated, under the supervision and with the participation of our President and Chief Executive Officer and Chief Financial Officer, the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report pursuant to Rule 13a-15(b) under the Securities Exchange Act of 1934 (the Exchange Act). Based on that evaluation, our President and Chief Executive Officer and Chief Financial Officer have concluded that, as of the end of the period covered by this report, our disclosure controls and procedures were effective in ensuring that information required to be disclosed in our Exchange Act reports is (1) recorded, processed, summarized and reported in a timely manner, and (2) accumulated and communicated to our management, including our President and Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Controls

There have been no changes in our internal control over financial reporting during the quarter ended August 31, 2016 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Management's Report on Internal Control over Financial Reporting

Management of The Greenbrier Companies, Inc. together with its consolidated subsidiaries (the Company), is responsible for establishing and maintaining adequate internal control over financial reporting. The Company's internal control over financial reporting is a process designed under the supervision of the Company's principal executive and principal financial officers to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the Company's financial statements for external reporting purposes in accordance with accounting principles generally accepted in the United States of America.

As of the end of the Company's 2016 fiscal year, management conducted an assessment of the effectiveness of the Company's internal control over financial reporting based on the framework established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on this assessment, management has determined that the Company's internal control over financial reporting as of August 31, 2016 is effective.

Our independent registered public accounting firm, KPMG LLP, independently assessed the effectiveness of the Company's internal control over financial reporting, as stated in their attestation report, which is included at the end of Part II, Item 9A of this Form 10-K.

Inherent Limitations on Effectiveness of Controls

The Company's management, including the Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all error and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. The design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Further, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within the Company have been detected. These inherent limitations include the realities that

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judgments in decision-making can be faulty and that breakdowns can occur because of simple error or mistake. Controls can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Projections of any evaluation of controls effectiveness to future periods are subject to risks. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Board of Directors and Stockholders

The Greenbrier Companies, Inc. and subsidiaries:

We have audited The Greenbrier Companies, Inc. and subsidiaries (the Company) internal control over financial reporting as of August 31, 2016, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of August 31, 2016, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of The Greenbrier Companies, Inc. and subsidiaries as of August 31, 2016 and 2015, and the related consolidated statements of income, comprehensive income, equity, and cash flows for each of the years in the three-year period ended August 31, 2016, and our report dated October 25, 2016 expressed an unqualified opinion on those consolidated financial statements.

/s/ KPMG LLP

Portland, OR

October 25, 2016

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Item 9B. OTHER INFORMATION

None

PART III

Item 10. DIRECTORS AND EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

There is hereby incorporated by reference the information under the captions Election of Directors, Board Committees, Meetings and Charters, Section 16(a) Beneficial Ownership Reporting Compliance and Executive Officers of the Company in the Company's definitive Proxy Statement to be filed pursuant to Regulation 14A, which Proxy Statement is anticipated to be filed with the Securities and Exchange Commission within 120 days after the end of Registrant's year ended August 31, 2016.

Item 11. EXECUTIVE COMPENSATION

There is hereby incorporated by reference the information under the caption Executive Compensation and Compensation Committee Report in Registrant's definitive Proxy Statement to be filed pursuant to Regulation 14A, which Proxy Statement is anticipated to be filed with the Securities and Exchange Commission within 120 days after the end of Registrant's year ended August 31, 2016.

Item 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDERS MATTERS

There is hereby incorporated by reference the information under the captions Security Ownership of Certain Beneficial Owners and Management and Equity Compensation Plan Information in Registrant's definitive Proxy Statement to be filed pursuant to Regulation 14A, which Proxy Statement is anticipated to be filed with the Securities and Exchange Commission within 120 days after the end of Registrant's year ended August 31, 2016.

Item 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

There is hereby incorporated by reference the information under the caption Transactions with Related Persons and Independence of Directors in Registrant's definitive Proxy Statement to be filed pursuant to Regulation 14A, which Proxy Statement is anticipated to be filed with the Securities and Exchange Commission within 120 days after the end of Registrant's year ended August 31, 2016.

Item 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

There is hereby incorporated by reference the information under the caption Ratification of Appointment of Auditors in Registrant's definitive Proxy Statement to be filed pursuant to Regulation 14A, which Proxy Statement is anticipated to be filed with the Securities and Exchange Commission within 120 days after the end of the Registrant's year ended August 31, 2016.

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PART IV

Item 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(1) Financial Statements
See Consolidated Financial Statements in Item 8

(a) (2) Financial Statements Schedule*

* All other schedules have been omitted because they are inapplicable, not required or because the information is given in the Consolidated Financial Statements or notes thereto. This supplemental schedule should be read in conjunction with the Consolidated Financial Statements and notes thereto included in this report.

(a) (3) The following exhibits are filed herewith and this list is intended to constitute the exhibit index:

- 3.1 Registrant's Articles of Incorporation are incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 10-Q filed April 5, 2006.
- 3.2 Articles of Merger amending the Registrant's Articles of Incorporation are incorporated herein by reference to Exhibit 3.2 to the Registrant's Form 10-Q filed April 5, 2006.
- 3.3 Registrant's Bylaws, as amended January 11, 2006, are incorporated herein by reference to Exhibit 3.3 to the Registrant's Form 10-Q filed April 5, 2006.
- 3.4 Amendment to the Registrant's Bylaws, dated October 31, 2006, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed November 6, 2006.
- 3.5 Amendment to the Registrant's Bylaws, dated January 8, 2008, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed November 8, 2007.
- 3.6 Amendment to the Registrant's Bylaws, dated April 8, 2008, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed April 11, 2008.
- 3.7 Amendment to the Registrant's Bylaws, dated April 7, 2009, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed April 13, 2009.

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- 3.8 Amendment to the Registrant's Bylaws, dated June 8, 2009, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed June 10, 2009.
- 3.9 Amendment to the Registrant's Bylaws, dated June 10, 2009, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed June 12, 2009.
- 3.10 Amendment to the Registrant's Bylaws, dated October 30, 2012, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed November 5, 2012.
- 3.11 Amendment to the Registrant's Bylaws, dated January 9, 2013, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed January 15, 2013.
- 3.12 Amendment to the Registrant's Bylaws, dated October 29, 2013, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed October 31, 2013.
- 3.13 Amendment to the Registrant's Bylaws, dated October 29, 2014, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed November 3, 2014.
- 3.14 Amendment to the Registrant's Bylaws, dated March 31, 2015, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed April 6, 2015.
- 3.15 Amendment to the Registrant's Bylaws, dated July 1, 2015, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed July 8, 2015.
- 3.16 Amendment to the Registrant's Bylaws, dated October 21, 2015, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed October 22, 2015.
- 3.17 Amendment to the Registrant's Bylaws, dated October 30, 2015, is incorporated herein by reference to Exhibit 3.1 to the Registrant's Form 8-K filed November 2, 2015.

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- 4.1 Specimen Common Stock Certificate of Registrant is incorporated herein by reference to Exhibit 4.1 to the Registrant's Registration Statement on Form S-3 filed April 7, 2010 (SEC File Number 333-165924).
- 4.2 Indenture between the Registrant and U.S. Bank National Association, as Trustee, including the form of Global Note attached as Exhibit A thereto, dated April 5, 2011, is incorporated herein by reference to Exhibit 4.1 to the Registrant's Form 8-K filed April 5, 2011.
- 10.1* Amended and Restated Employment Agreement between the Registrant and Mr. William A. Furman, dated August 28, 2012, is incorporated herein by reference to Exhibit 10.3 to the Registrant's Form 10-Q filed January 9, 2013.
- 10.2* Form of Amended and Restated Employment Agreement between the Registrant and certain of its executive officers, as amended and restated on August 28, 2012, is incorporated herein by reference to Exhibit 10.8 to the Registrant's Form 10-K filed November 1, 2012.
- 10.3* Amendment No. 1 to Form of Amended and Restated Employment Agreement between the Registrant and certain of its executive officers, as amended and restated on August 28, 2012, is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 10-Q filed January 8, 2014.
- 10.4* Form of Agreement concerning Indemnification and Related Matters (Directors) between Registrant and its directors is incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 10-Q filed July 1, 2015.
- 10.5* Form of Agreement concerning Indemnification and Related Matters (Officers) between Registrant and its officers is incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 10-Q filed April 4, 2013.
- 10.6* Form of Change of Control Agreement is incorporated herein by reference to Exhibit 10.5 to the Registrant's Form 10-Q filed April 4, 2013.
- 10.7* The Greenbrier Companies, Inc. Form of Amendment to Change of Control Agreement, approved on May 28, 2013, is incorporated herein by reference to Exhibit 10.2 of the Registrant's Form 8-K filed June 6, 2013.
- 10.8* The Greenbrier Companies, Inc. 2014 Amended and Restated Stock Incentive Plan is incorporated herein by reference to Appendix A to the Registrant's Proxy Statement on Schedule 14A filed November 19, 2014.
- 10.9* Form of Director Restricted Share Agreement related to the 2010 Amended and Restated Stock Incentive Plan is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 10-Q filed April 3, 2014.
- 10.10* The Greenbrier Companies, Inc. Nonqualified Deferred Compensation Plan Basic Plan Document is incorporated herein by reference to Exhibit 10.38 to the Registrant's Form 10-K filed November 4, 2011.
- 10.11* The Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement is incorporated herein by reference to Exhibit 10.39 to the Registrant's Form 10-K filed November 4, 2011.

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- 10.12* Amendment No. 1 to the Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement, dated May 25, 2011, is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 10-Q filed July 8, 2011.
- 10.13* Amendment No. 2 to the Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement, dated August 28, 2012, is incorporated herein by reference to Exhibit 10.27 to the Registrant's Form 10-K filed November 1, 2012.
- 10.14* Amendment No. 3 to the Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement, dated January 1, 2014, is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 10-Q filed January 7, 2015.

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- 10.15* Amendment No. 4 to the Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement, dated October 28, 2014, is incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 10-Q filed January 7, 2015.
- 10.16* Amendment No. 5 to the Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement, dated December 8, 2015, is incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 10-Q filed April 5, 2016.
- 10.17* Updated Rabbi Trust Agreements, dated October 1, 2012, related to The Greenbrier Companies, Inc. Nonqualified Deferred Compensation Plan, are incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 10-Q filed January 9, 2013.
- 10.18* The Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement for Directors, dated July 1, 2012, is incorporated herein by reference to Exhibit 10.28 to the Registrant's Form 10-K filed November 1, 2012.
- 10.19* Amendment No. 1 to the Greenbrier Companies Nonqualified Deferred Compensation Plan Adoption Agreement for Directors, dated December 15, 2015, is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 10-Q filed April 5, 2016.
- 10.20* Updated Rabbi Trust Agreements, dated October 1, 2012, related to the Greenbrier Companies, Inc. Nonqualified Deferred Compensation Plan for Directors, are incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 10-Q filed January 9, 2013.
- 10.21* The Greenbrier Companies, Inc. Form of Restricted Stock Unit Agreement, approved on May 5, 2014, is incorporated herein by reference to Exhibit 10.1 of the Registrant's Form 8-K filed May 9, 2014.
- 10.22* The Greenbrier Companies, Inc. Form of Restricted Stock Unit Agreement, approved on May 22, 2015, is incorporated herein by reference to Exhibit 10.1 of the Registrant's Form 10-Q filed July 1, 2015.
- 10.23* The Greenbrier Companies, Inc. 2014 Employee Stock Purchase Plan is incorporated herein by reference to Appendix B to the Registrant's Definitive Proxy Statement on Schedule 14A filed on November 19, 2014.
- 10.24* Consulting Services Agreement between Greenbrier Leasing Company LLC and Charles J. Swindells dated January 7, 2016 is incorporated herein by reference to Exhibit 10.3 to the Registrant's Form 10-Q filed April 5, 2016.
- 10.25* Separation and Consulting Agreement between James T. Sharp and the Registrant dated May 10, 2016 is incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 10-Q filed July 6, 2016.
- 10.26 Purchase Agreement among The Greenbrier Companies, Inc., Merrill Lynch, Pierce, Fenner & Smith Incorporated and Goldman, Sachs & Co., dated March 30, 2011, is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 8-K filed April 5, 2011.
- 10.27 The Greenbrier Companies, Inc. Executive Stock Ownership Guidelines, adopted as of August 28, 2012, are incorporated herein by reference to Exhibit 10.39 to the Registrant's Form 10-K filed November 1, 2012.

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- 10.28 Contribution Agreement, dated July 18, 2014, by and among Watco Companies, L.L.C., the Registrant, and with respect to Article III and Article IX only, GBW Railcar Services Holdings, L.L.C., is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 8-K filed July 24, 2014.
- 10.29 Amended and Restated Limited Liability Company Agreement of GBW Railcar Services Holdings, L.L.C., dated July 18, 2014, by and among the Registrant, Watco Mechanical Services, L.L.C., and Millennium Rail, Inc., is incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 8-K filed July 24, 2014.
- 10.30 Credit Agreement, dated March 20, 2014, by and among Greenbrier Leasing Company LLC, an Oregon limited liability company, Bank of America, N.A., as Administrative Agent, Union Bank,

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N.A., as Syndication Agent, Merrill Lynch, Pierce, Fenner & Smith Incorporated, as Sole Lead Arranger and Sole Book Manager, and the lenders identified therein is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 8-K filed March 26, 2014.

- 10.31 First Amendment to Credit Agreement, dated February 29, 2016, among Greenbrier Leasing Company LLC, Bank of America, N.A. as Administrative Agent, and the lenders identified therein is incorporated herein by reference to Exhibit 10.5 to the Registrant's Form 10-Q filed April 5, 2016.
- 10.32 Termination and Future Sharing Agreement, dated September 30, 2015, between Greenbrier Leasing Company and WLR-Greenbrier Rail Inc. is incorporated herein by reference to Exhibit 10.1 to the Registrant's Form 10-Q/A filed March 25, 2016.
- 10.33 Purchase and Sale Agreement, dated September 30, 2015, between Greenbrier Leasing Company and WL Ross-Greenbrier Rail I LLC is incorporated herein by reference to Exhibit 10.2 to the Registrant's Form 10-Q/A filed March 25, 2016.
- 10.34 Third Amended and Restated Credit Agreement, dated as of October 29, 2015, by and among The Greenbrier Companies, Inc., Bank of America, N.A., as Administrative Agent, MUFG Union Bank, N.A., as Syndication Agent, Bank of the West, Fifth Third Bank and Wells Fargo Bank, National Association, as Co-Documentation Agents, Merrill Lynch, Pierce, Fenner & Smith Incorporated, as Sole Lead Arranger and Sole Bookrunner, and the lenders identified therein is incorporated herein by reference to Exhibit 10.1 of the Registrant's Form 8-K filed October 30, 2015.
- 10.35 Third Amended and Restated Security Agreement, dated as of October 29, 2015, by and among The Greenbrier Companies, Inc., and the other parties identified as Debtors therein, in favor of Bank of America, N.A., as Administrative Agent is incorporated herein by reference to Exhibit 10.2 of the Registrant's Form 8-K filed October 30, 2015.
- 10.36 Third Amended and Restated Pledge Agreement, dated as of October 29, 2015, by and among The Greenbrier Companies, Inc., and the other parties identified as Debtors therein, in favor of Bank of America, N.A., as Administrative Agent is incorporated herein by reference to Exhibit 10.3 of the Registrant's Form 8-K filed October 30, 2015.
- 14.1 Code of Business Conduct and Ethics is incorporated herein by reference to Exhibit 14.1 to the Registrant's Form 8-K filed January 12, 2016.
- 21.1 List of the subsidiaries of the Registrant.
- 23.1 Consent of KPMG LLP, independent auditors.
- 31.1 Certification pursuant to Rule 13(a) - 14(a).
- 31.2 Certification pursuant to Rule 13(a) - 14(a).
- 32.1 Certification pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

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32.2 Certification pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

101 The following financial information from the Company's Annual Report on Form 10-K for the year ended August 31, 2016, formatted in XBRL (eXtensible Business Reporting Language) and furnished electronically herewith: (i) the Consolidated Balance Sheets; (ii) the Consolidated Statements of Income; (iii) Consolidated Statements of Comprehensive Income (iv) the Consolidated Statements of Equity (v) the Consolidated Statements of Cash Flows; (vi) the Notes to Condensed Consolidated Financial Statements.

* Management contract or compensatory plan or arrangement

Note: For all exhibits incorporated by reference, unless otherwise noted above, the SEC file number is 001-13146.

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities and Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

THE GREENBRIER COMPANIES, INC.

Dated: October 25, 2016

By: /s/ William A. Furman
 William A. Furman
 President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

| Signature | Date |
|---|------------------|
| /s/ William A. Furman William A. Furman, President, Chief Executive Officer and Chairman of the Board | October 25, 2016 |
| /s/ Duane C. McDougall Duane C. McDougall, Director | October 25, 2016 |
| /s/ Graeme A. Jack Graeme A. Jack, Director | October 25, 2016 |
| /s/ Charles J. Swindells Charles J. Swindells, Director | October 25, 2016 |
| /s/ Wendy L. Teramoto Wendy L. Teramoto, Director | October 25, 2016 |
| /s/ Donald A. Washburn Donald A. Washburn, Director | October 25, 2016 |
| /s/ Kelly M. Williams Kelly M. Williams, Director | October 25, 2016 |
| /s/ Thomas B. Fargo Thomas B. Fargo, Director | October 25, 2016 |
| /s/ Lorie L. Tekorius | October 25, 2016 |

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Lorie L. Tekorius, Senior Vice President, Chief Financial Officer and
Treasurer (Principal Financial Officer)

/s/ Adrian J. Downes

October 25, 2016

Adrian J. Downes, Senior Vice President and Chief Accounting Officer
(Principal Accounting Officer)

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CERTIFICATIONS

The Company filed the required 303A.12(a) New York Stock Exchange Certification of its Chief Financial Officer with the New York Stock Exchange with no qualifications following the 2016 Annual Meeting of Shareholders and the Company filed as an exhibit to its Annual Report on Form 10-K for the year ended August 31, 2015, as filed with the Securities and Exchange Commission, a Certification of the Chief Executive Officer and a Certification of the Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.