The New Detroit Model 6 Axle is All About Efficiency, Reliability and Durability.

- Modular differential with laser-welded ring gear
- Gear set and carrier optimization for improved powertrain efficiency
- Low-viscosity and friction-optimized oil
- Faster rear axle ratios to support downspeeding

ADVANCED TECHNOLOGY DELIVERS INNOVATIVE AXLES THAT IMPROVE UPTIME, FUEL EFFICIENCY AND OVERALL COST OF OWNERSHIP.

**AXLE LUBRICATION MANAGEMENT (ALM) SYSTEM REDUCES FUEL CONSUMPTION.**

Available exclusively on the new Cascadia®, this innovation regulates the oil level at the ring gear through the use of a valve integrated into the ring gear cover. This helps reduce the “churning” associated with the ring gear moving through the new lower-viscosity oil. This reduction in parasitic power loss when combined with the other efficiency improvements adds up to better fuel economy. ALM was put through the same rigorous testing as all other Detroit products and has successfully met or exceeded all of our design standards. It provides an innovative and durable way of improving efficiency in even the most extreme conditions.
Improving Efficiency and Performance

Our ring and pinion gears are machined using highly advanced power-dry cutting and grinding that result in exacting tooth profiles and ideal gear mesh. They’re so precise that the ring and pinion gears do not require pairing. These sophisticated processes render perfectly matched gearing to ensure more efficient power transmission, longer durability, quiet axle operation and enhanced driver comfort.

Other features of the Detroit Single Rear Axle are:

- Larger differential components, adding stability and increasing durability
- Compatibility with all brake systems offered by Freightliner Trucks, Western Star, Thomas Built Buses and FCCC
- The Model 2 has increased ground clearance due to its smaller bowl, helping to avoid obstacles

Single Rear Axle Specifications

<table>
<thead>
<tr>
<th>DATA CODE</th>
<th>MODEL CODE</th>
<th>GAWR (LB / KG)</th>
<th>HOUSING WALL THICKNESS (MM / IN)</th>
<th>MAX. CREEP RATING (LB / KG)</th>
<th>MAX. GCW (LB / KG)</th>
<th>RING GEAR SIZE (IN / MM)</th>
<th>OIL CAPACITY (QT / LITERS)</th>
<th>MAXIMUM TORQUE (LB-FT)</th>
<th>AVAILABLE RATIOS (LB-FT)</th>
<th>ALM</th>
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<tbody>
<tr>
<td>420-1C3</td>
<td>DA-RS-13.0-2</td>
<td>13,000 / 5,896</td>
<td>9.5 / 0.37</td>
<td>42,000 / 19,051 (Pick-up &amp; Delivery)</td>
<td>36,000 / 16,329 (all other vocations)</td>
<td>12.8 / 325</td>
<td>7.4 / 7.0</td>
<td>660</td>
<td>2.92, 3.15, 3.63, 3.91, 4.10, 4.30, 4.56, 4.78, 5.13, 5.71, 6.14</td>
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<tr>
<td>420-1C4</td>
<td>DA-RS-17.5-2</td>
<td>17,500 / 7,937</td>
<td>9.5 / 0.37</td>
<td>Application Approval Required</td>
<td>55,000 / 24,948 (pick-up and delivery/ vocational)</td>
<td>15.35 / 390</td>
<td>12.0 / 11.0</td>
<td>1,200</td>
<td>2.85, 3.08, 3.31, 3.58, 3.91, 4.10, 4.30, 4.56, 4.78, 5.22, 5.56, 5.88, 6.14</td>
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<td>420-1C6</td>
<td>DA-RS-19.0-2</td>
<td>19,000 / 8,617</td>
<td>9.5 / 0.37</td>
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<td>12.7 / 0.50</td>
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<td>DA-RS-21.0-2</td>
<td>21,000 / 9,525</td>
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<td>12.7 / 0.50</td>
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<td>420-1C10</td>
<td>DA-RS-23.0-4</td>
<td>23,000 / 10,431</td>
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<td>12.7 / 0.50</td>
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</tbody>
</table>

Model 2

Model 4

Model 6

*Model 2 and Model 4 are classic axles.

Understanding a Model Code
New Detroit Single Rear Axles

EXAMPLE:
DA-RS-20.0-6T = DA for Single Rear Axle
20 for 2020 ratios available in classic axles until that date
6 for weight rating (x 1000 lb.)
T for Standard, “F” for with ALM
Model Number
Weight Rating (x 1000 lb.)
Single
Rear
Axle
Detroit

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