WHEN YOUR RIG NEEDS BIG. THE DETROIT™ DD16® ENGINE DELIVERS STRENGTH AND EFFICIENCY ON THE ROAD OR ON THE JOB SITE.

Detroit offers a big-bore workhorse with up to 600 horsepower and 2050 lb-ft of torque, delivering more efficient and dependable power and performance. Beyond performance, Detroit engineers have been able to meet GHG17 requirements while improving fuel economy.

**PERFORMANCE**
- The 2nd generation ACRS™ fuel system, with higher injector pressure, improves performance and fuel economy
- Precise fuel delivery for extremely quiet, smooth combustion and to meet stringent emissions-control requirements
- Variable injection patterns for optimal fuel economy across all modes of engine operation
- Final high-pressure amplification is isolated in the injector, not in the rail or fuel lines, which results in less stress on components
- Exceptional torque response leads to superior launch feel and acceleration
- Outstanding gradeability
  - Flattens steep grades and mountain roads with greater speeds and pulling power
- Turbo-compounding system recovers normally wasted exhaust gases and turns them into usable power without sacrificing fuel economy
- Integrated Jacobs® Engine Brake
  - Offers three levels of quieter engine braking for enhanced downhill control
  - Reduces wear on service brakes, tires, and other components

**POWER**
- 15.6 L displacement is the largest engine built by Detroit
- 600 HP/2050 lb-ft rating available to pull the most extreme loads
- Wide, flat torque curve pulls strong all the way down below 1000 RPM

**SERVICEABILITY**
- Above the frame rail, cartridge-style filters for easier, faster, and cleaner filter changes
- Unmatched parts availability and expert service at Detroit's best-performing service network
- Big-bore durability and reliability with a 1.2-million-mile B50 life

**COMPLIANCE**
- The DD16 is compliant with 2017 Greenhouse Gas (GHG17) requirements

**DD16 SPECIFICATIONS**

- **Configuration**: Inline 6 Cylinder
- **Displacement**: 952 cu. in. (15.6 L)
- **Compression Ratio**: 17:1
- **Bore**: 5.47 in. (139 mm)
- **Stroke**: 6.73 in. (171 mm)
- **Weight (Dry)**: 2837 lb. (1287 kg)
- **Electronics**: DDEC®
- **Service Fill (Oil & Filter Change)**: 45 qt. (43 L)
- **Horsepower Range**: 500-600
- **Torque Range**: 1850-2050 lb-ft
**Horsepower and Torque Curve**

![Graph showing horsepower and torque curve]

**Power Ratings**

<table>
<thead>
<tr>
<th>Item</th>
<th>Warranty Limits (Whichever Occurs First)</th>
<th>Repair Charge (Paid by Owner)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Months</td>
<td>Miles / Kilometers</td>
</tr>
<tr>
<td>Engine</td>
<td>0-24</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Injectors</td>
<td>0-24</td>
<td>200,000 mi / 320,000 km</td>
</tr>
</tbody>
</table>

Upon expiration of the 24-month warranty coverage, but within 500,000 mi / 800,000 km of use, the warranty continues to apply as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Warranty Limits (Whichever Occurs First)</th>
<th>Repair Charge (Paid by Owner)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Components</td>
<td>25-60</td>
<td>500,000 mi / 800,000 km</td>
</tr>
</tbody>
</table>

**Standard Warranty**

**Maintenance Intervals**

<table>
<thead>
<tr>
<th>Item</th>
<th>Mi/km/Hz</th>
<th>Severe Duty</th>
<th>Short-Haul</th>
<th>Long-Haul</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Oil and Filter Change**</td>
<td>Miles</td>
<td>35,000</td>
<td>40,000</td>
<td>55,000</td>
</tr>
<tr>
<td>Fuel Filter Change</td>
<td>Miles</td>
<td>35,000</td>
<td>40,000</td>
<td>55,000</td>
</tr>
<tr>
<td>Valve Lash Adjustment</td>
<td>Miles</td>
<td>Adjust at 100,000, at 500,000, and then every 500,000 thereafter.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel Particulate Filter</td>
<td>Miles</td>
<td>500,000 to 550,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEF Pump Filter</td>
<td>Hours</td>
<td>11,000 to 11,500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Maintenance intervals using Detroit Fluids Specification 93K222 (CK-4) or 93K223 (FA-4) Approved Oils.
** Recommended based on using Detroit’s lube oil and oil analysis program.
Severe duty is up to 30,000 annual miles (48,000 kilometers) and a vehicle that averages less than 5 miles per gallon (mpg).
Short-haul is between 30,000 and 60,000 annual miles (48,000-96,000 kilometers) and a vehicle that averages between 5.1 and 5.9 mpg.
Long-haul is over 60,000 annual miles (96,000 kilometers) and a vehicle that averages between 6.0 and 6.9 mpg.
Fuel economy represents overall fuel economy (including idle time).
† Miles/Kilometers or Hours, whichever occurs first.