**DETROIT™ DD13® WITH POWER TAKE-OFF (PTO)**

Designed specifically for vocational applications, the DD13 engine offers an incredible combination of power and efficiency, with a broad torque curve that delivers consistent, dependable performance for PTO equipment. And with the latest improvements in engine technology, you use less fuel, making the DD13 an investment that really pays off.

**PTOs ARE USED IN MANY APPLICATIONS**
- Concrete mixers
- Vacuum trucks
- Brick and block trucks
- Log haulers equipped with loading cranes
- Snow plows
- Other vocational markets

**THE DD13 PTO PROVIDES**
- Performance and fuel economy advantages at current emissions levels
- Continuous REPTO capacity 650 Nm/479 lb-ft
- REPTO drive ratio of 1.217:1

DD13 PTO provides power while the vehicle is moving or stationary. The REPTO flange is an integral part of the flywheel housing, receives the power through the gear train and does not depend on the transmission to receive its power.

The DD13 is also available with an optional front-engine power take-off (FEPTO).

**DD13 REPTO OFFERS IMPORTANT ADVANTAGES TO OPERATORS**
- Eliminates front frame or bumper extensions needed to accommodate FEPTO
- Shortens overall truck length, improving maneuverability
- Operators can spec a longer wheelbase without exceeding bridge laws or other length restrictions, which increases carrying capacity
- Shorter hydraulic lines can be used
- REPTO eliminates modifications to radiators and radiator supports needed for FEPTO shaft clearance. Operators can spec a standard radiator without loss of cooling capacity
- The DD13 REPTO uses the original engine mounts, so engine length stays the same

**GHG17**
- The DD13 is compliant with 2017 Greenhouse Gas (GHG17) regulations

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**DD13 SPECIFICATIONS**

- **Configuration**: Inline 6 Cylinder
- **Displacement**: 781 cu. in. (12.8 L)
- **Compression Ratio**: 18.4:1
- **Bore**: 5.20 in. (132 mm)
- **Stroke**: 6.15 in (156 mm)
- **Weight (Dry)**: 2487 lb. (1128 kg)
- **Electronics**: DDEC®
- **Service Fill (Oil & Filter Change)**: 40 qt. (38 L)
- **Horsepower Range**: 350-505
- **Torque Range**: 1250-1850 lb-ft
- **Front or Rear-Engine PTO**: Optional

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**TECHNICAL SPECIFICATIONS**

**DD13**

**POWER TAKE-OFF**

DEMANDDETROIT.COM
DD13 Programmable Functions for use with Power Take-off

- Adjustable minimum/maximum engine speed
- Adjustable ramp rate
- Engine torque limiting
- Up to three preset engine RPM options
- Limiting speed governor or variable speed governor
- Throttle pedal override function
- Vehicle speed limit
- Drop-out for clutch/park or service brake

**Maintenance Intervals**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MI/KM/HR†</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></td>
<td>Miles</td>
<td>35,000</td>
<td>40,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kilometers</td>
<td>56,000</td>
<td>64,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hours</td>
<td>750</td>
<td>1000</td>
</tr>
<tr>
<td>Fuel Filter Change</td>
<td></td>
<td>Miles</td>
<td>35,000</td>
<td>40,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kilometers</td>
<td>56,000</td>
<td>64,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hours</td>
<td>750</td>
<td>1000</td>
</tr>
<tr>
<td>Valve Lash Adjustment</td>
<td></td>
<td>Miles</td>
<td>Adjust at 100,000, at 500,000 and then every 500,000 thereafter.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kilometers</td>
<td>Adjust at 160,000, at 800,000 and then every 800,000 thereafter.</td>
<td></td>
</tr>
</tbody>
</table>

Note: A Detroit torsional coupling (p/n A4712370038) is required in the REPTO driveline. Engine Power take-off (REPTO/FEPTO) requires prior Detroit Application Engineering approval.

**Standard Warranty**

**WARRANTY LIMITS (WHICHEVER OCCURS FIRST)**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MONTHS</th>
<th>MILES / KILOMETERS</th>
<th>PARTS</th>
<th>LABOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td>0-24</td>
<td>Unlimited</td>
<td>No charge</td>
<td>No charge</td>
</tr>
<tr>
<td>Injectors</td>
<td>0-24</td>
<td>200,000 mi 320,000 km</td>
<td>No charge</td>
<td>No charge</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:

**Major Components**

- 25-60 months: 500,000 mi / 800,000 km
- No charge
- Not covered