Series 40E™ Engines
On-Highway Applications

General Specifications

**Basic Engine**

4 cycle / Turbocharged and Air-to-Air Charge Cooled

<table>
<thead>
<tr>
<th>Number of Cylinders</th>
<th>Bore x Stroke in (mm)</th>
<th>Compression Ratio</th>
<th>Displacement</th>
<th>Fuel Control</th>
<th>Fuel System</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 In-line</td>
<td>7.6LTA</td>
<td>16.4:1</td>
<td>466 cu in (7.6L)</td>
<td>Fully integrated electronic controls</td>
<td>HEUI fuel injection</td>
</tr>
<tr>
<td>8.7LTA</td>
<td>8.7LTA</td>
<td>17.2:1</td>
<td>530 cu in (8.7L)</td>
<td>HEUI fuel injection</td>
<td>HEUI fuel injection</td>
</tr>
</tbody>
</table>

**Dimensions: (approx.)**

<table>
<thead>
<tr>
<th>Length in (mm)</th>
<th>Width in (mm)</th>
<th>Height in (mm)</th>
<th>Weight (dry), lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.69 (1135)</td>
<td>27.72 (704)</td>
<td>39.61 (1006)</td>
<td>1367 (630)</td>
</tr>
<tr>
<td>44.69 (1135)</td>
<td>27.72 (704)</td>
<td>39.61 (1006)</td>
<td>1399 (645)</td>
</tr>
</tbody>
</table>


**Rated Power Output and Peak Torque**

**7.6LTA SERIES 40E**

175 HP (131 kW) @ 2300 RPM
460 lb-ft (624 N•m) @ 1400 RPM
195 HP (145 kW) @ 2300 RPM
520 lb-ft (705 N•m) @ 1400 RPM
195 HP (145 kW) @ 2300 RPM
560 lb-ft (759 N•m) @ 1400 RPM
210 HP (157 kW) @ 2300 RPM
520 lb-ft (705 N•m) @ 1400 RPM
215 HP (160 kW) @ 2300 RPM
560 lb-ft (759 N•m) @ 1400 RPM
215 HP (160 kW) @ 2300 RPM
620 lb-ft (841 N•m) @ 1400 RPM
230 HP (172 kW) @ 2300 RPM
620 lb-ft (841 N•m) @ 1400 RPM
230 HP (172 kW) @ 2300 RPM
660 lb-ft (895 N•m) @ 1400 RPM
250 HP (187 kW) @ 2300 RPM
660 lb-ft (895 N•m) @ 1400 RPM
250 HP (187 kW) @ 2300 RPM
800 lb-ft (1085 N•m) @ 1400 RPM

**8.7LTA SERIES 40E**

275 HP (205 kW) @ 2000 RPM
800 lb-ft (1085 N•m) @ 1200 RPM
275 HP (205 kW) @ 2000 RPM
860 lb-ft (1166 N•m) @ 1200 RPM
280 HP (209 kW) @ 2000 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
300 HP (224 kW) @ 2000 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
300 HP (224 kW) @ 2000 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
300 HP (224 kW) @ 2000 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
300 HP (224 kW) @ 2000 RPM
950 lb-ft (1288 N•m) @ 1200 RPM
300 HP (224 kW) @ 2000 RPM
950 lb-ft (1288 N•m) @ 1300 RPM
300 HP (224 kW) @ 2000 RPM
1050 lb-ft (1424 N•m) @ 1200 RPM
330 HP (246 kW) @ 2000 RPM
1150 lb-ft (1559 N•m) @ 1300 RPM

*EURO II On-Highway and not available in the United States
** Limited to a 30% load factor
1 Governed at 2600 rpm
2 Governed at 2400 rpm
3 Governed at 2580 rpm
4 Governed at 2200 rpm
5 Governed at 2280 rpm
6 Governed at 2100 rpm
Rating Explanation

Consult your authorized Detroit Diesel Corporation representative for the rating that will apply to your application.

Power output guaranteed within 5% at SAE J1995 conditions.

Standard Equipment

- Belt tensioner — Polyvee serpentine belt
- Coolant conditioner
- Cylinder liners — Wet replaceable
- Electronic control system — Engine mounted
- Fan drive — 15.1" height
- Flywheel housing — SAE #2
- Flywheel — SAE #2, 14" manual
- Fuel filter
- Hydraulically Actuated Electronically Controlled Unit Injectors (HEUI)
- Lube oil filter — Spin on full flow
- Oil cooler — Engine mounted
- Oil pan — Rear sump
- Rocker cover — Top inlet
- Turbocharger — Wastegate GT type

Optional Equipment

- Air compressor — 13.2 CFM Bendix TuFlo 550
- Alternator — Delco 21 S/12 or 24V
- Alternator bracket — Various
- Fan drive — Various
- Flywheel and housing — Various
- Front mounts — Various
- Fuel filter — Various
- Oil pan, filter and dipstick — Various
- PTO adapter — SAE “B”, 11 tooth
- Power steering pump — Various
- Pulleys — Accessory drive C/S
- Rocker cover — Side inlet
- Starter motor — Delco 37 MT (12 or 24V) Delco 42 MT
- Turbocharger — Various
- Water inlet — Various