CATERPILLAR® ENGINE SPECIFICATIONS

I-4, 4-Stroke-Cycle Diesel

- **Bore**: 105 mm (4.1 in.)
- **Stroke**: 127 mm (5.0 in.)
- **Displacement**: 4.4 L (268.5 in³)
- **Aspiration**: Turbocharged
- **Compression Ratio**: 18:2
- **Combustion System**: Direct Injection
- **Rotation (from flywheel end)**: Counterclockwise
- **Engine Weight, Net Dry (approximate)**: 465 kg (1025 lbs.)

**FEATURES**

**Emissions**
Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) standards. Stage IIIA refers to European standards.

**Reliable and Durable Power**
Diesel tough components and conservative speed for smooth operation and long engine life. Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities.

**Clean and Quiet Power**
Subjective harshness has been controlled, making the engine sound even quieter.

**Fuel Economy**
Consistent performance and excellent fuel economy over entire operating range.

**Easy Low-Cost Maintenance**
Convenient positioning of service points on right-hand side for easy accessibility. Service intervals at 500 hours as standard.

**Web Site**
For additional information on all your power requirements, visit www.cat-industrial.com.

**STANDARD ENGINE EQUIPMENT**

- **Air Inlet**
  - Mounted air filter and turbocharger
- **Cooling System**
  - Fan (pusher or puller)
  - Fan drive
  - Radiator
  - Water pump
- **Electrical Equipment**
  - Alternator (12 or 24 volt)
  - Starter motor (12 or 24 volt)
- **Flywheel & Flywheel Housing**
  - Flywheel
  - SAE No. 3 flywheel housing
- **Fuel System**
  - Fuel filter
- **Lube System**
  - Oil cooler and filter
  - Timing case oil filler
- **Mountings**
  - Engine mounting brackets
- **Power Take Off**
  - SAE A or SAE B front PTO (142/280 N•m)
- **Starting Aids**
  - Glow plugs
- **Literature**
  - User’s Handbook
PERFORMANCE DATA

Turbocharged — 2000 rpm

<table>
<thead>
<tr>
<th>Speed rpm</th>
<th>Power bkW</th>
<th>Torque N·m</th>
<th>Power bhp</th>
<th>Torque lb-ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>2200</td>
<td>74.0</td>
<td>418</td>
<td>99.2</td>
<td>308.3</td>
</tr>
</tbody>
</table>

Net Intermittent Power = SAE J1995
Other ratings are available.
Lower power ratings should not be read from these curves.

RATINGS AND CONDITIONS

IND-C (Intermittent) is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Additional ratings are available for specific customer requirements. Consult your Caterpillar dealer.

Rating Conditions for Diesel Engines — up to 6.6 liter are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (.295 in. Hg), and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).