**CATERPILLAR® ENGINE SPECIFICATIONS**

In-Line 4 Cylinder, Four-Stroke-Cycle Diesel

- **Bore** — mm (in) .......................... 84.0 (3.31)
- **Stroke** — mm (in) .......................... 100 (3.94)
- **Displacement** — liter (cu in) ........... 2.2 (134)
- **Combustion System** ........................ Indirect injection
- **Rotation (from flywheel end)** ........ Counterclockwise
- **Capacity for Liquids** — L (qt) ........... 3.6 (3.8)
- **Lube Oil System (refill) typical** ........ 10 (8.8)
- **Weight, Net Dry (approximate)** —
  - kg (lb) ...................................... 184 (406)
- **Rated Engine Speed, Full Load** .......... 3000 rpm

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**FEATURES**

Options must be selected for the following features. See your Caterpillar dealer for a detailed description of options for each feature.

- Alternative oil fillers
- Alternator — 12V 55A
- Cast iron engine block
- Cast iron exhaust manifold — side outlet
- Choice of cooling fans
- Coolant pump — belt driven
- Coolant temperature switch
- CTD fuel injection pump
- ESOS
- Flywheel and flywheel housing
- Glow plug starting aid
- Inlet manifold with choice of inlets
- Lube oil pressure switch
- Lube oil sump
- Provision for PTOs
- Spin-on fuel filter
- Spin-on lube oil filter
- Starter motor 12V

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**BENEFITS**

- **EMISSIONS**
  Meets Tier 2, Stage II emissions requirements. Tier 2 refers to EPA (U.S.) standards. Stage II refers to European standards.

- **FUEL ECONOMY**
  Consistent performance and excellent fuel economy over entire operating range.

- **BROAD APPLICATION RANGE**
  Big displacement, more performance for your money, and convenient installation.

- **RELIABILITY AND DIESEL DURABILITY**
  Diesel tough components and conservative speed for smooth operation and long engine life.

- **HIGH PERFORMANCE**
  Horsepower and torque capabilities optimized. Substantial 10 percent torque rise.

- **CLEAN AND QUIET POWER**
  Cleaner and quieter, free from visible smoke throughout operational speed range.

- **EASY LOW-COST MAINTENANCE**
  Convenient positioning of service points on right-hand side for easy accessibility.

- **WEB SITE**
  For additional information on all your power requirements, visit www.cat.com.
**RATING DEFINITIONS AND CONDITIONS**

**Intermittent** is the horsepower and speed capability of the engine which can be used for about one hour, followed by an hour of operation at or below the continuous rating.

**Continuous** is the horsepower and speed capability of the engine which can be used without interruption or load cycling. Additional ratings are available for specific customer requirements.

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**Ratings** are based on SAE J1995 standard conditions of 100 kPa (29.61 in Hg) and 25° C (77° F). These ratings also apply at ISO3046/1, DIN6271 and BS5514 standard conditions of 100 kPa (29.61 in Hg), 27° C (81° F) and 30% relative humidity.

**Fuel consumption** is based on fuel oil having an LHV of 42 780 kJ/kg (18 390 Btu/lb) and weighing 838.9 g/liter (7.001 lb/U.S. gal). Power ratings are based on engine equipped with fuel, lube oil and jacket water pumps but without fan.