



Image shown may not reflect actual engine

## CATERPILLAR® ENGINE SPECIFICATIONS

### I-6, 4-Stroke-Cycle Diesel

Bore .....	105.0 mm (4.13 in.)
Stroke .....	127 mm (5.0 in.)
Displacement.....	6.6 L (402.8 in <sup>3</sup> )
Aspiration.....	Turbocharged Aftercooled
Compression Ratio.....	16.2:1
Combustion System.....	Direct injection
Rotation (from flywheel end)....	Counterclockwise
Cooling System .....	Water
Engine Weight, Net Dry (approximate) with standard equipment....	506 kg (1,115 lbs.)

## FEATURES

### Emissions

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

### Worldwide Supplier Capability

Caterpillar  
– Casts engine blocks and heads  
– Machines critical components  
– Assembles complete engine  
Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable product.  
Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities.

### Testing

Prototype testing on every model:  
– proves computer design  
– verifies system torsional stability  
– tests functionality on every model  
Every Caterpillar® engine is dynamometer tested under full load to ensure proper engine performance.

### Full Range of Attachments

Wide range of bolt-on system expansion attachments, factory designed and tested.

### Unmatched Product Support Offered Through Worldwide Caterpillar Dealer Network

More than 1,800 dealer outlets  
Caterpillar factory-trained dealer technicians service every aspect of your industrial engine  
99.7% of parts orders filled within 24 hours worldwide  
Caterpillar parts and labor warranty  
Preventive maintenance agreements available for repair before failure options  
Scheduled Oil Sampling program matches your oil sample against Caterpillar set standards to determine:  
– internal engine component condition  
– presence of unwanted fluids  
– presence of combustion by-products

### Web Site

For additional information on all your power requirements, visit [www.cat-industrial.com](http://www.cat-industrial.com).

### STANDARD ENGINE EQUIPMENT

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#### Air Inlet System

Turbocharged  
Air-to-air aftercooled

#### Control System

Electronic governing, PTO speed control  
Programmable ratings  
Cold mode start strategy  
Automatic altitude compensation  
Power compensation for fuel temperature  
Programmable low and high idle and total engine limit  
Electronic diagnostics and fault logging  
Engine monitoring system  
J1939 broadcast (diagnostic and engine status)  
ADEM™ A4 ECU

#### Cooling System

Thermostats and housing, vertical outlet  
Jacket water pump, centrifugal  
Water pump, inlet

#### Exhaust System

Exhaust manifold, dry  
Optional exhaust outlet

#### Flywheels and Flywheel Housing

SAE No. 2/3 flywheel housing

#### Power Take Off

SAE A PTO  
SAE B PTO

#### Fuel System

Cat® Common Rail Fuel System  
Fuel filter, secondary (2 micron high performance)  
Fuel transfer pump  
Fuel priming pump  
ACERT™ technology

#### Lube System

Crankcase breather  
Oil cooler  
Oil filler  
Oil filter  
Oil pan front sump  
Oil dipstick  
Oil pump (gear driven)

#### General

Paint, Caterpillar yellow  
Vibration damper  
Lifting eyes

### DIMENSIONS

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Length	929 mm (36.6 in.)
Width	668 mm (26.3 in.)
Height	797 mm (31.4 in.)

Final dimensions will depend on completed specification.

### RATING DEFINITIONS AND CONDITIONS

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**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.

**Ratings** 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).