



Image shown may not reflect actual engine

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore.....	130.0 mm (5.12 in)
Stroke.....	157.0 mm (6.18 in)
Displacement.....	12.5 L (762.8 in ³)
Aspiration.....	Turbocharged Aftercooled
Compression Ratio.....	17.3:1
Rotation (from flywheel end).....	Counterclockwise
Weight, Net Dry (approximate kg, lb).....	939 kg, 2070 lb

FEATURES

Emissions

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

Worldwide Supplier Capability

Caterpillar
- Casts engine blocks, heads, and cylinder liners.
- 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 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 1,500 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 all your industrial power requirements, visit www.cat-industrial.com.



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STANDARD ENGINE EQUIPMENT

Air Inlet System

Air to air aftercooled (ATAAC)
Turbocharged

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

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. 1 Flywheel housing

Fuel System

MEUI injection
Fuel filter, secondary (2 micron high performance)
Fuel transfer pump
Fuel priming pump
ACERT™ Technology

Lube System

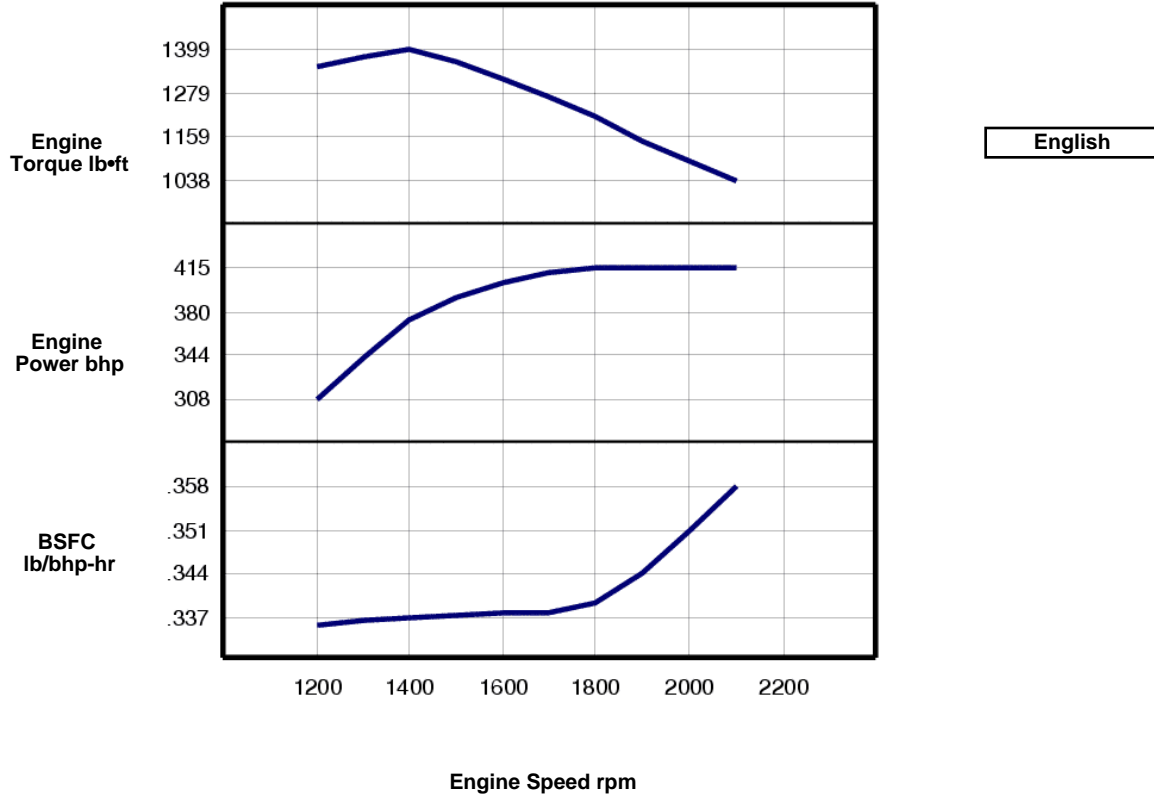
Crankcase breather
Oil cooler
Oil filler
Oil filter
Oil pan front sump
Oil dipstick
Oil pump (gear driven)

General

Paint, Caterpillar Yellow
Vibration damper
Lifting eyes

PERFORMANCE CURVES

IND - B - DM7686-01



Engine Speed rpm	Engine Power bhp	Engine Torque lb•ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	415	1038	.358	21.2
2000	415	1090	.351	20.8
1900	415	1148	.344	20.4
1800	415	1211	.339	20.1
1700	411	1269	.338	19.8
1600	402	1319	.338	19.4
1500	390	1364	.337	18.8
1400	373	1399	.337	17.9
1300	342	1381	.336	16.4
1200	308	1350	.336	14.8



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