



C15 ACERT™ Industrial Engine China Stage II 328-444 bkW/440-595 bhp @ 1800-2100 rpm

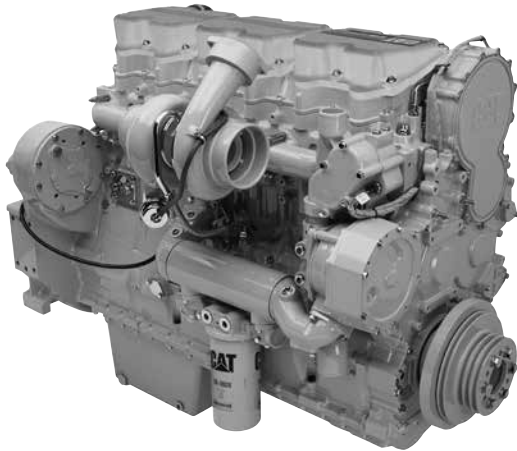


Image shown may not reflect actual engine

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore	137.2 mm (5.4 in)
Stroke	171.4 mm (6.75 in)
Displacement	15.2 L (927.56 in ³)
Aspiration	Turbocharged-Aftercooled
Compression Ratio.....	18.0:1
Rotation (from flywheel end) ...	Counterclockwise
Weight, Net Dry (approx.)	1469 kg (3239 lbs)

FEATURES

Emissions

Meets China II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent emission standards.

Reliable, Quiet, and Durable Power

World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

High Performance

Simple and efficient turbocharger provides optimal air management and improved fuel efficiency.

Fuel Efficiency

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications.

Fuel & Oil

Cat® engines are designed to accommodate B20 biofuel. Secondary and tertiary fuel filters provide improved fuel system durability. Your Cat dealer can provide more information regarding fuel and oil.

Broad Application Range

Industry-leading range of factory configurable ratings and options for agricultural, material handling, construction, mining, aircraft ground support, and other industrial applications.

Package Size

Exceptional power density enables standardization across numerous applications. Multiple installation options minimize total package size.

Quality

Every Cat engine is manufactured to stringent standards in order to assure customer satisfaction.

World-class Product Support Offered Through Global Cat Dealer Network

- Scheduled maintenance, including S•O•SSM sample
- Customer Support Agreements (CSA)
- Cat Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

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



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STANDARD ENGINE EQUIPMENT

Air Inlet System

Turbocharged Air-to-Air Aftercooled (ATAAC)

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 top 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 or SAE No. 0 flywheel housing

Fuel System

MEUI™ injection

Primary fuel filter, water separator

Fuel filter, secondary (2 micron)

Fuel filter, tertiary (2 micron)

Fuel transfer pump

Fuel priming pump

Lube System

Crankcase breather

Oil cooler

Oil filler

Oil filter

Oil pan front sump

Oil dipstick

Oil pump (gear driven)

General

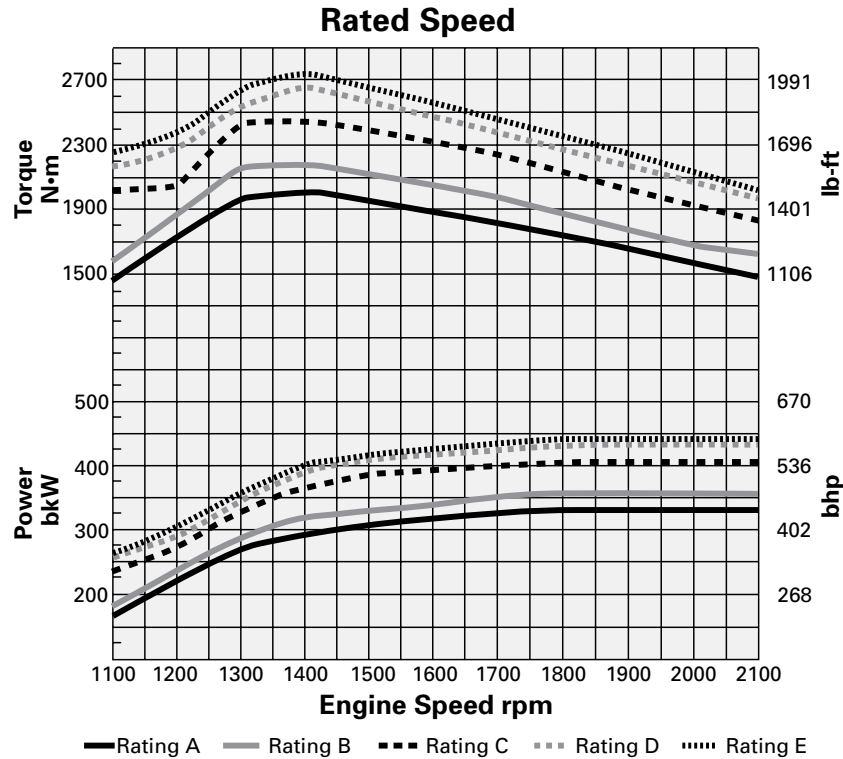
Paint, Caterpillar yellow

Vibration damper

Lifting eyes



PERFORMANCE DATA



Speed Range

Rating	Speed rpm	Peak Power bkW	Peak Power bhp	Speed rpm	Peak Torque N·m	Peak Torque lb-ft
A	2100	328	440	1400	2012	1484
B	2100	354	475	1400	2169	1600
C	2100	403	540	1400	2466	1819
D	2100	433	580	1400	2648	1953
E	2100	444	595	1400	2717	2004

RATING DEFINITIONS AND CONDITIONS

IND-A (Continuous) for heavy duty service where the engine is operated at maximum power and speed up to 100% of the time without interruption or load cycling.

IND-B for service where power and/or speed are cyclic (time at full load not to exceed 80%).

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%).

IND-D for service where maximum power is required for periodic overloads (time at full load not to exceed 10% of the duty cycle).

IND-E for service where maximum power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable (time at full load not to exceed 5% of the duty cycle).

Diesel Engines — 7 liter and higher

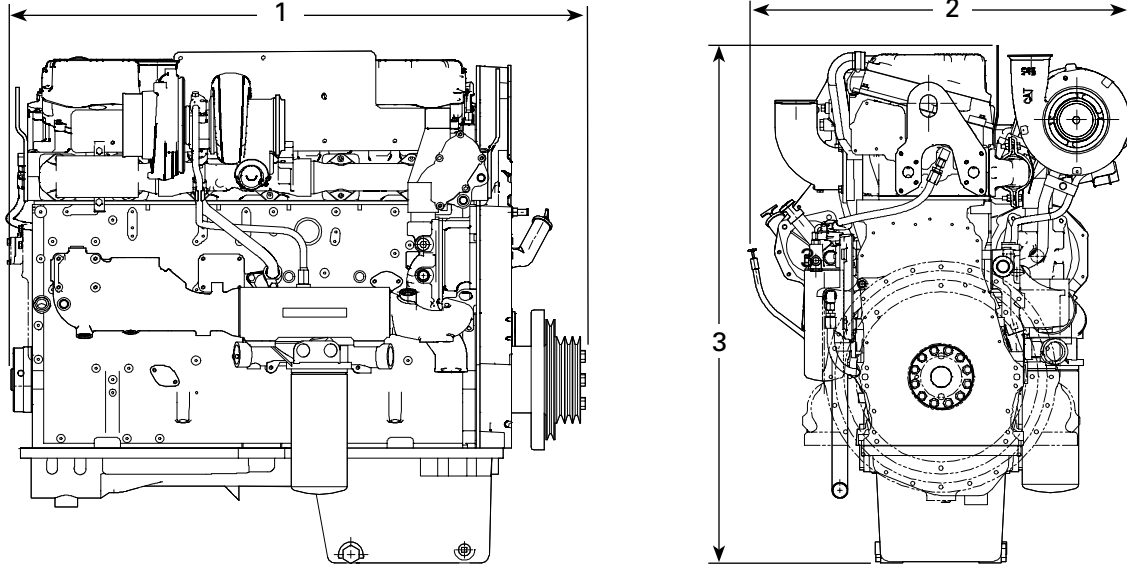
All rating conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in. Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.



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DIMENSIONS



(1) Length	1393.3 mm (54.9 in)
(2) Width	918.6 mm (36.2 in)
(3) Height	1245.2 mm (49 in)

Note: Final dimensions dependent on selected options.

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, ACERT, S•O•S, MEUI, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.