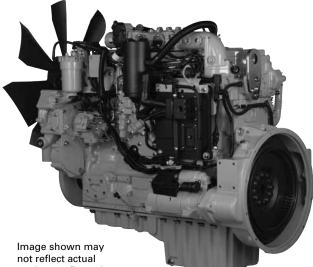
CAT

C6.6 ACERT[™] **Industrial Engine** Tier 4 Interim/Stage IIIB



engine configuration

FEATURES

Emissions

Designed to meet 2012 EPA (U.S.) Tier 4 Interim, EU Stage IIIB and Japanese MLIT emissions requirements.

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

Turbocharger with smart wastegate available on some ratings for fast response, high power, and increased torque.

Fuel Efficiency

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications. No additional fluids or additives are required, which lowers operating costs.

Fuel & Oil

Tier 4 Interim/Stage IIIB engines require Ultra Low Sulfur Diesel (ULSD) fuel containing a maximum of 15 ppm sulfur, and new oil formulations to support the new technology. Cat[®] engines are designed to accommodate B20 biofuel. 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, materialshandling, construction, mining, aircraft ground support, and other industrial applications.

CAT[®] ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore
Displacement
Aspiration Turbocharged-Aftercooled
Compression Ratio 16.5:1
Combustion System Direct injection
Rotation (from flywheel end) Counterclockwise
Capacity for Liquids
Cooling System 13.7 L (14.5 U.S. qts)
Lube System (refill) sump
dependent 13-16 L (13.7-16.9 U.S. qts)
Engine Weight, Net Dry
(approximate) 695 kg (1532 lbs)

89-129.4 bkW/119.3-173.5 bhp @ 2200 rpm

Package Size

Ideal for equipment with narrow engine compartments. Multiple installation options minimize total package size.

Low-Cost Maintenance

Worldwide service delivers ease of maintenance and simplifies the servicing routine. Hydraulic tappets, multi-vee belts, "no ash service" aftertreatment, and 500-hour oil change intervals enable low-cost maintenance. Many service items have a choice of location on either side of the engine to enable choice of service access. The S•O•S[™] program is available from your Cat dealer to determine oil change intervals and provide optimal performance.

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•S[™] 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

Standard air cleaners

Control System

Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments, flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Cooling System

Top tank temperature 108°C (226°F) as standard to minimize cooling pack size, 50:50 water glycol mix, detailed guidance on cooling system design and validation available to ensure machine reliability

Exhaust System

Diesel particulate filter supplied with a range of inlet and outlet options, no ash service requirement, passive regeneration

Flywheels and Flywheel Housing

Wide choice of drivetrain interfaces, including but not limited to SAE1, SAE2, and SAE3 configurations

Fuel System

Electronic high pressure common rail, ACERT™ Technology, innovative filter design to ensure maximum protection of the engine

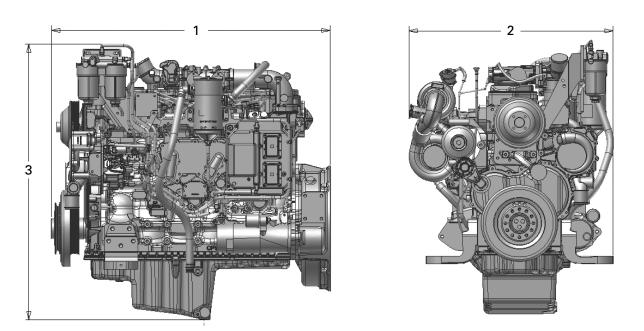
Lube System

Choice of sumps for different applications

Power Take Off

SAE A or SAE B flanges on left-hand side, engine power can also be taken from the front of the engine on some applications, factory fitted compressors are also available.

DIMENSIONS



(1) Length — 1063.7 mm (41.9 in)

(2) Width — 753 mm (29.6 in)

(3) Height — 907 mm (35.7 in)

Note: Final dimensions dependent on selected options

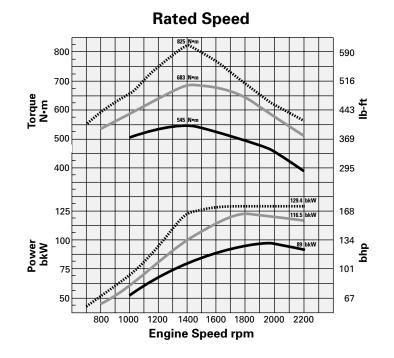


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PERFORMANCE DATA — PRELIMINARY

Turbocharged-Aftercooled — 2200 rpm



Rated Speed

Rating	Speed rpm	Peak Power bkW	Peak Power bhp	Speed rpm	Peak Torque N∙m	Peak Torque Ib-ft
С	2200	89.0	119.3	1400	545	402.0
С	2200	116.5	156.2	1400	683	503.8
С	2200	129.4	173.5	1400	825	608.5

RATING DEFINITIONS 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 Cat dealer.

Rating Conditions 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 EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

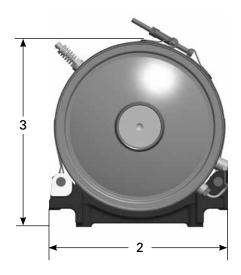


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AFTERTREATMENT CONFIGURATION





283 mm (11.1 in) DIAMETER BASE CONFIGURATION SHOWN Approximate Size and Weight (1) Length — 852.7 mm (33.6 in)

(1) Length — 852.7 mm (33.6 m) (2) Width — 364.6 mm (14.35 in) (3) Height — 352 mm (13.9 in) Weight — 40 kg (88.1 lbs)

AFTERTREATMENT FEATURES

Regeneration: Passive regeneration completely transparent to the operator

Mounting: Extensive range of inlets and outlets, as well as remote and on-engine installations, provide flexibility for many installations.

Service: Service-free DPF for the emissions life of the engine Available in 12V or 24V systems

STANDARD EMISSIONS CONTROL EQUIPMENT

DOC: Diesel Oxidation Catalyst **DPF:** Diesel Particulate Filter

3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

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, ACERT, S•O•S, "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.