C15 ACERT™
Petroleum Engine
354-433 bkW (475-580 bhp)
1800-2100 rpm

FEATURES

**Emissions**
Designed to meet U.S. EPA Tier 4 Final and EU Stage IV 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 with balance valve 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**
Tier 4 Final, Stage IV 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, materials-handling, construction, mining, forestry, waste, and other industrial applications.

**Package Size**
Exceptional power density enables standardization across numerous applications. Multiple installation options available to minimize total package size.

**Low-Cost Maintenance**
Worldwide service delivers ease of maintenance and simplifies the servicing routine. Minimum 5000-hour diesel particulate filter (DPF) ash service interval enables low-cost maintenance. Capable of optimal oil change intervals of up to 500 hours, depending on rating, application, operating conditions, and maintenance practices. Engine is designed for a B10 life of up to 10,000 hours. 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)
- Caterpillar Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program
Control System
Electronic control system, over-foam wiring harness, automatic altitude compensation, power compensated for fuel temperature, remote fan control, configurable software features, engine monitoring system SAE J1939 broadcast and control, integrated Electronic Control Unit (ECU)

Cooling System
Vertical outlet thermostat housing, centrifugal water pump, guidance on cooling system design available through your dealer to ensure equipment reliability. Available cooling package provides additional auxiliary heat load capacity capable of a minimum 10% of engine rated power. See the Web Ambient Tool (https://wbdat.cat.com/) for estimated ambient capability based on rating, fan drive ratio, fan, altitude and auxiliary heat load.

Exhaust System
Mid-mount turbocharged system with front and rear exhaust configurations

Flywheels and Flywheel Housing
SAE No. 0 and SAE No. 1 flywheel housings; available SAE 1 power take-off housing with optional SAE A, SAE B, and SAE C power take-off drives; engine power can also be taken from the front of the engine with optional attachments

Fuel System
MEUI injection; primary fuel filter, secondary fuel filters, fuel transfer pump, electronic fuel priming

Lube System
Open crankcase ventilation system with fumes disposal (optional OCV filter system); oil cooler, oil filler, oil filter, oil dipstick, oil pump (gear-driven); choice of sumps (front, rear, and center)

General
Paint: Cat yellow

DIMENSIONS

<table>
<thead>
<tr>
<th>Engine Dimensions</th>
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<tbody>
<tr>
<td>(1) Length</td>
<td>1438 mm</td>
</tr>
<tr>
<td>(2) Width</td>
<td>969 mm</td>
</tr>
<tr>
<td>(3) Height</td>
<td>1248 mm</td>
</tr>
<tr>
<td>Engine Weight (dry)</td>
<td>1542 kg</td>
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Note: Do not use for installation design. See general dimension drawings for detail. Weights and dimensions are approximate. Final dimensions are dependent on selected options.
PERFORMANCE DATA — PRELIMINARY

Turbocharged-Aftercooled — 1800-2100 rpm

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.

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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Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.

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