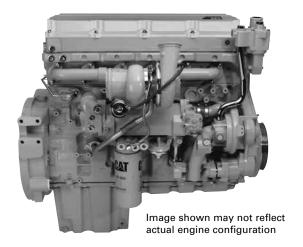


# C13 ACERT™ Industrial Engine

China Stage II

310-328 bkW/415-440 bhp @ 1800-2100 rpm



### **CAT® ENGINE SPECIFICATIONS**

I-6, 4-Stroke-Cycle Diesel
Bore
Stroke
Displacement
Aspiration Turbocharged Aftercooled
Compression Ratio
Combustion System Direct Injection
Rotation (from flywheel end) Counterclockwise
Capacity for Liquids
Cooling System
(engine only) 14.2 L (3.8 U.S. gal)
Lube System (refill) 34 L (9 U.S. gal)
Engine Weight, Net Dry
(approximate) 1138 kg (2509 lbs)

#### **FEATURES**

#### **Emissions**

Meets China Stage II, U.S. EPA Tier 2 Equivalent, EU Stage II 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•S<sup>SM</sup> 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.

LEHH0538-01 Page 1 of 4



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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 Front facing exhaust

#### Flywheels and Flywheel Housing

SAE No. 1 flywheel housing

## **Fuel System**

MEUI<sup>™</sup> 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

LEHH0538-01 Page 2 of 4

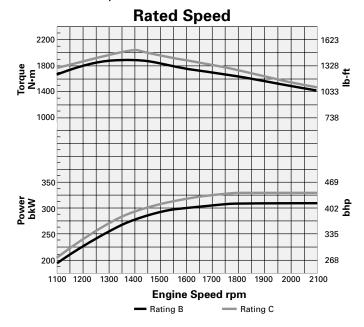


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#### PERFORMANCE DATA

Turbocharged Aftercooled — 1800-2100 rpm



## **Speed Range**

Rating	Speed rpm	Peak Power bkW	Peak Power bhp	Speed rpm	Peak Torque N•m	Peak Torque lb-ft
В	2100	310	415	1400	1896	1399
С	2100	328	440	1400	2010	1482

# **RATING DEFINITIONS AND CONDITIONS**

**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%).

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.

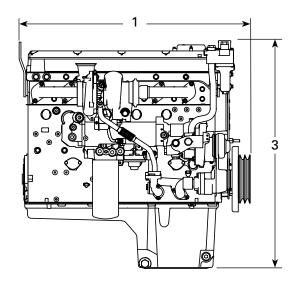
LEHH0538-01 Page 3 of 4

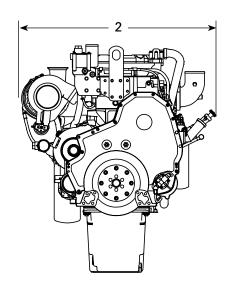


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# **DIMENSIONS**





(1) Length	1295 mm (50.98 in)
(2) Width	1054 mm (41.5 in)
(3) Height	1186 mm (46.69 in)

**Note:** Final dimensions dependent on selected options.