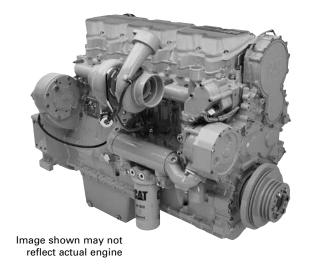


## C18 ACERT™ Industrial Engine

Non-certified

429-470 bkW/575-630 bhp @ 1800-2100 rpm



#### **CAT® ENGINE SPECIFICATIONS**

# I-6, 4-Stroke-Cycle Diesel Bore 145.0 mm (5.71 in) Stroke 183.0 mm (7.2 in) Displacement 18.1 L (1104.53 in³) Aspiration Turbocharged-Aftercooled Compression Ratio 16.3:1

Rotation (from flywheel end)... Counterclockwise Weight, Net Dry (approx.)..... 1673 kg (3688 lbs)

#### **FEATURES**

#### **Emissions**

Non-certified rating. Available for global non-regulated areas.

#### 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 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.

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#### STANDARD ENGINE EQUIPMENT

#### Air Inlet System

Turbocharged Aftercooled – 429-470 bkW (575-630 bhp)

**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

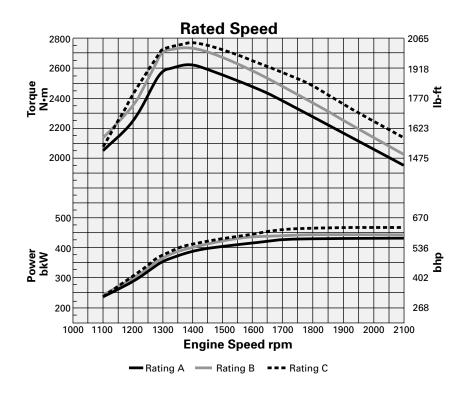
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## C18 ACERT Industrial Engine

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#### PERFORMANCE DATA



#### **Speed Range**

Rating	Speed rpm	Peak Power bkW	Peak Power bhp	Speed rpm	Peak Torque N•m	Peak Torque lb-ft
Α	2100	429	575	1400	2627	1938
В	2100	447.5	600	1400	2742	2022
С	2100	470	630	1400	2769	2043

#### 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%).

#### 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.

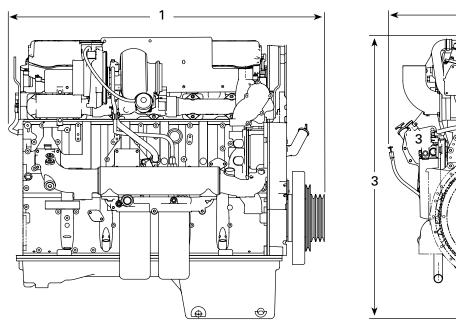
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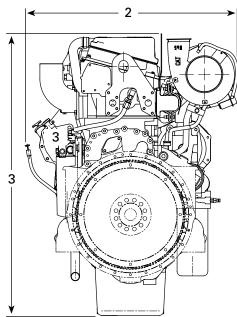


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#### **DIMENSIONS**





(1) Length	1392.1 mm (54.8 in)		
(2) Width	939.5 mm (37.0 in)		
(3) Height	1241.5 mm (48.9 in)		

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