



The Cat® C11 ACERT™ Industrial Diesel Engine is offered in ratings ranging from 242-336 kW (325-450 bhp) @ 1800-2100 rpm. These ratings meet China Stage II, EPA Tier 3 equivalent, and EU Stage IIIA equivalent emission standards. Industries and applications powered by C11 ACERT engines include Agriculture, Ag Tractors, Aircraft Ground Support, Bore/Drill Rigs, Chippers/Grinders, Combines/Harvesters, Compactors/Rollers, Compressors, Construction, Cranes, Crushers, Dredgers, Forestry, Forklifts, General Industrial, Hydraulic Power Units, Irrigation Equipment, Loaders/Forwarders, Material Handling, Mining, Mobile Earthmoving Equipment, Paving Equipment, Pumps, Shovels/Draglines, Specialty Ag Equipment, Sprayers, Surface Hauling Equipment, Trenchers and Underground Mining Equipment.

**Specifications**

| Power Rating  |               |         |
|---------------|---------------|---------|
| Minimum Power | 242 kW        | 325 bhp |
| Maximum Power | 336 kW        | 450 bhp |
| Rated Speed   | 1800-2100 rpm |         |

| Emission Standards |  |
|--------------------|--|
| Emissions          | China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent |

| General                      |                                 |
|------------------------------|---------------------------------|
| Engine Configuration         | Inline 6, 4-Stroke-Cycle Diesel |
| Bore                         | 130 mm (5.12 in)                |
| Stroke                       | 140 mm (5.51 in)                |
| Displacement                 | 11.1 L (677.36 in³)             |
| Aspiration                   | Turbocharged Aftercooled (TA)   |
| Compression Ratio            | 17.2:1                          |
| Combustion System            | Direct Injection                |
| Rotation (from flywheel end) | Counterclockwise                |

| Engine Dimensions (Approximate. Final dimensions dependent on selected options) |                     |
|---|---------------------|
| Length  | 1203 mm (47.4 in)   |
| Width   | 1054.4 mm (41.5 in) |
| Height  | 1186 mm (46.7 in)   |
| Weight, Net Dry (Basic Operating Engine Without Optional Attachments)           | 930 kg (2050 lb)    |

## Benefits and Features

### Emissions

Meets China Stage II, U.S. EPA Tier 3 equivalent or U.S. EPA Tier 2 equivalent, EU Stage IIIA equivalent or EU Stage II equivalent emission standards. U.S. EPA Tier 3 equivalent EU Stage IIIA equivalent available using EPA (U.S.) Flexibility and EU Flexibility. Also available for other regulated and 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.

### 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. Ideal for equipment with narrow engine compartments.

### Quality

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

### World-class Product Support Offered Through Global Cat Dealer Network

- Scheduled maintenance, including SOSSM 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

## Standard Equipment

### Air Inlet System

- Turbocharged
- Air-to-Air Aftercooled

### Control System

- Electronic governing, PTO speed control
- Programmable ratings
- Automatic altitude compensation
- Power compensation for fuel temperature
- Programmable low and high idle and total engine limit
- Electronic diagnostics and fault logging
- Engine monitoring system SAE J1939 broadcast and control
- ADEM™ A4 Electronic Control Unit (ECU)

### 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 flywheel housing

### Fuel System

- MEUI injection
- Fuel filter, secondary (2 micron)
- ACERT™ Technology
- Fuel transfer pump
- Fuel priming pump

### Lube System

- Crankcase breather
- Oil cooler
- Oil filler
- Lube oil filter
- Front sump oil pan
- Oil dipstick
- Gear driven oil pump

### General

- Vibration damper
- Lifting eyes
- Cold start capability to -20° C (-4° F)
- Paint: Caterpillar yellow, with optional colors available at request

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