

Product Specifications For C7



Power Rating

| | |
|---------------|---------------|
| Maximum Power | 300 hp |
| Rated Speed | 1800-2200 rpm |
| Minimum Power | 225 hp |

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 | 4.3 in |
| Stroke | 5 in |
| Displacement | 442 in ³ |
| Compression Ratio | 16.2:1 |
| Aspiration | Turbocharged Aftercooled (TA) |
| Combustion System | Direct Injection |
| Rotation from Flywheel End | Counterclockwise |
| Aftertreatment | - |

Engine Dimensions - Approximate

| | |
|--------|---------|
| Length | 41.5 in |
| Width | 29.8 in |
| Height | 40.6 in |

C7 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

HEUI™ 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