



The Cat® 3508B Industrial Diesel Engine is offered in ratings ranging from 746-820 kW (1000-1100 bhp) @ 1800 rpm. These ratings are non-certified and are available for global non-regulated areas. Industries and applications powered by 3508B engines include Bore/Drill Rigs, Chippers/Grinders, Construction, Cranes, Dredgers, Forestry, General Industrial, Material Handling, Mining, Mobile Earthmoving Equipment, Pumps, Shovels/Draglines, Surface Hauling Equipment and Trenchers.

## Specifications

Power Rating		
Maximum Power	820 kW	1100 HP
Maximum Torque	4353 Nm @ 1450 rpm	3211 lb-ft @ 1450 rpm
Rated Speed	1800 rpm	
Minimum Power	746 kW	1000 HP

Emission Standards	
Emissions	Non-Certified

General		
Engine Configuration	V-8, 4-Stroke-Cycle Diesel	
Bore	170 mm	6.7 in
Stroke	190 mm	7.5 in
Displacement	34.5 l	2105 in <sup>3</sup>
Aspiration	Turbocharged Aftercooled	
Rotation from Flywheel End	Counterclockwise	
Aftertreatment	-	

Engine Dimensions - Approximate		
Length	2462 mm	97 in
Width	1704 mm	67 in
Height	1720 mm	68 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	4309 kg	9500 lb

## Benefits and Features

**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.

### **Fuel Efficiency**

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications while maintaining low operating costs.

### **Emissions**

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

### **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

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## **Standard Equipment**

### **Air Inlet System**

- Aftercooler core, corrosion resistant coated (air side)
- Air cleaner. Regular duty, dry, panel type with service indicators, turbocharger, jacket water aftercooled.
- Turbocharger, rear mounted
- Jacket water aftercooled

### **Control System**

- Governor, RH, 3161 with self contained synthetic oil sump
- Air-fuel ratio control
- Mechanical speed control, without torque control
- Governor control
- Positive locking

### **Cooling System**

- Thermostats and housing
- Jacket water pump, centrifugal

### **Exhaust System**

- Exhaust manifold, dry

### **Flywheels and Flywheel Housing**

- SAE No. 0 flywheel
- 151 flywheel teeth
- SAE No. 0 flywheel housing
- SAE standard rotation

### **Fuel System**

- Fuel filter, with service indicators, cartridge type with RH service
- Fuel transfer pump

### **Instrumentation**

- Instrument Panel, RH
- Engine oil pressure gauge
- Fuel pressure gauge
- Oil filter differential gauge
- Jacket water temperature gauge
- Service meter, electric
- Tachometer

### **Lube System**

- Crankcase breather, top mounted
- Oil cooler
- Oil filler
- Oil dipstick
- Oil pump
- Oil filter, cartridge type with RH service
- Shallow oil pan
- Fumes disposal (not installed)

### **Mounting System**

- Rails, mounting, engine length, 254 mm (10 in), industrial-type, C-channel.
- Included on selected top level engines

### **Power Take Off**

- Accessory drive, upper RH
- Front housing, single sided

### **Protection System**

- Junction box
- Manual shutoff, RH
- Safety shutoff protection, energized to shutdown
- Low oil pressure, low idle 69 kPa (10 psi); high idle 207 kPa (30 psi)
- Water temperature
- Overspeed
- 3161 governor solenoid energized to shutdown

### **Starting System**

- Starting switch

### **General**

- Vibration damper

- Lifting eyes
- Paint: Caterpillar yellow, with optional colors available at request

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