



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		
Minimum Power	746 kW	1000 bhp
Maximum Power	820 kW	1100 bhp
Rated Speed	1800 rpm	

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 ³)
Aspiration	Turbocharged Aftercooled
Rotation (from flywheel end)	Counterclockwise

Engine Dimensions (Approximate. Final dimensions dependent on selected options)	
Length	2462 mm (97 in)
Width	1703 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.

Quality

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

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

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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