



Cat® C3.4B Industrial Diesel Engines offer the perfect balance of durability, fuel efficiency and low emissions. The C3.4B Industrial Engine is offered in ratings ranging from 45 -55.4 bkW (60-74.3 bhp) @ 2200-2500 rpm, which meet U.S. EPA Tier 4 Final, EU Stage IIIB emission standards. Industries and applications powered by C3.4B engines include: Agriculture, Aerial Lifts, Aircraft Ground Support, Bore/Drill Rigs, Chippers/Grinders, Compactors/Rollers, Compressors, Construction, Forestry, General Industrial, Irrigation Equipment, Material Handling, Mining, Mobile Earthmoving Equipment, Mobile Light Towers, Mobile Sweepers, Paving Equipment, Pumps, Specialty Ag Equipment, Trenchers, Turf and Landscaping and Underground Mining Equipment.

Specifications

Power Rating		
Minimum Power	45 bkW	60.3 bhp
Maximum Power	55.4 bkW	74.3 bhp
Rated Speed	2200 & 2500 rpm	

Emission Standards	
Emissions	U.S. EPA Tier 4 Final, EU Stage IIIB Nonroad Emission Standards

General	
Engine Configuration	In-Line 4, 4-Stroke-Cycle Diesel
Bore	99 mm (3.9 in)
Stroke	110 mm (4.3 in)
Displacement	3.4 L (207.5 in³)
Aspiration	Turbocharged (T)
Compression Ratio	17:1
Combustion System	Direct Injection
Rotation (from flywheel end)	Counterclockwise
Cooling System Capacity	6 L (6.3 qt)

Engine Dimensions (Approximate. Final dimensions dependent on selected options)	
Length	610 mm (24 in)
Width	653 mm (25.7 in)
Height	829.5 mm (32.6 in)
Weight - Net Dry (Basic Operating Engine Without Optional Attachments)	251 kg (553.4 lb)

Aftertreatment Dimensions (Approximate. Final dimensions dependent on selected options)

Length	Wall Flow: 541 mm (21.3 in). Through Flow: 509 mm (20 in)
Weight	Wall Flow: 20 kg (44 lb). Through Flow: 14 kg (30.8 lb)
Diameter	Wall-Flow: 180 mm (7.1 in). Through Flow: 149 mm (5.8 in)

Benefits and Features

Emissions

U.S. EPA Tier 4 Final, EU Stage IIIB emission standards.

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

Leading-edge technology provides significant improvements in power, torque, fuel consumption and response. Technology includes single smart wastegated turbo systems, durable high pressure common rail technology, and closed circuit breathing system.

Fuel Efficiency

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

Fuel & Oil

Tier 4 Interim or Tier 4 Final, Stage IIIB or Stage IV engines require Ultra Low Sulfur Diesel (ULSD) fuel containing a maximum of 15 ppm sulfur, and new oil formulations to support the new technology. Cat® engines are designed to accommodate B20 biofuel. 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.

Low Cost Maintenance

Worldwide service delivers ease of maintenance and simplifies the servicing routine. Capable of optimal oil change intervals of 500 hours. Service-free through-flow diesel particulate filter (DPF) for Tier 4 Final, Stage IIIB. The S-O-SSM program is available from your Cat dealer to determine oil change intervals and provide optimal performance.

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

Tier 4 Final, Stage IIIB Aftertreatment Features

Technology and Power. The Diesel Particulate Filter (DPF) technology chosen performs through the work cycle of the engine, allowing it to work efficiently. Engine performance has been optimized to provide maximum power, and the emissions module is invisible to the operator in most duty cycles. **Mounting.** Multiple off and on engine installation options provide customers with simple and flexible solutions for many applications. **Service.** Minimum 3,000 hour DPF ash service intervals for wall-flow DPF. Through-flow DPF is service-free for the emissions life of the engine.

Standard Equipment

Air Inlet System

- Induction manifolds
- Exhaust manifolds

Control System

- Starter motor
- Alternator
- Electronic Control Unit
- Sensors for: engine speed, oil pressure, and coolant temperature

Cooling System

- Cooling packs

Flywheels and Flywheel Housing

- Flywheel housings
- Flywheel and starter rings

Fuel System

- Fuel filter positions
- Common rail fuel pump and injectors

Lube System

- Lubricating oil filters

General

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

U.S. EPA Tier 4 Final, EU Stage IIIB Aftertreatment/Clean Emissions Control Equipment

- Diesel Particulate Filter (DPF)
- Diesel Oxidation Catalyst (DOC)
- Flex pipe connection kit with straight and 90° options for flexibility

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, S•O•S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.