



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 63 -90 kW (84.5-120.7 bhp) @ 2200-2500 rpm, which meet U.S. EPA Tier 4 Final, EU Stage IV 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	63 kW	84.5 bhp
Maximum Power	90 kW	121 bhp
Rated Speed	2200 & 2500 rpm	

Emission Standards	
Emissions	U.S. EPA Tier 4 Final, EU Stage IV Nonroad Emission Standards. U.S. EPA Tier 4 Interim Equivalent and EU Stage IIIB Equivalent ratings available using EPA or EU Flex Provisions.

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 in ³)
Aspiration	Turbocharged-Aftercooled (TA)
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	623 mm (24.5 in)
Height	805.5 mm (31.7 in)



Dry Weight (Basic Operating Engine Without Optional Attachments)	270 kg (595.2 lbs)
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Aftertreatment Dimensions (Approximate. Final dimensions dependent on selected options)	
DOC Length	320 mm (12.6 in)
DOC Weight	15 kg (33 lb)
DOC Diameter	196 mm (7.7 in)
SCR Weight	20 kg (44 lb)
SCR Diameter	251 mm (9.88 in)
SCR Length	520 mm (20.47 in)

Benefits and Features

Emissions

Meets U.S. EPA Tier 4 Final, EU Stage IV 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 IV Aftertreatment Features

Technology and Power. The DOC/SCR technology provides customers with a compact aftertreatment solution. The DOC/SCR is invisible to the operator while equipment is being used. **Mounting.** Multiple on engine mounting positions for DOC/Mixer. Flexibility of remote mounting of SCR can in various orientations. **Service.** Aftertreatment is designed to be 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 IV Aftertreatment/ Clean Emissions Control Equipment

- Diesel Oxidation Catalyst (DOC)
- Selective Catalytic Reduction (SCR)
- SCR Auxiliaries



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.