



The Cat® 3512C Industrial Diesel Engine is offered in the following rating: 1120 kW (1500 bhp) @ 1800 rpm. This rating is U.S. EPA Tier 2 equivalent. Industries and applications powered by 3512C 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	1120 kW	1500 HP
Maximum Torque	7130 Nm @ 1500 rpm	5259 lb-ft @ 1500 rpm
Rated Speed		1800 rpm
Minimum Power	1120 kW	1500 HP

Emission Standards	
Emissions	U.S. EPA Tier 2 Equivalent

General		
Engine Configuration	V-12, 4-Stroke-Cycle Diesel	
Bore	170 mm	6.7 in
Stroke	190 mm	7.5 in
Displacement	51.8 l	3158 in <sup>3</sup>
Aspiration	Turbocharged Aftercooled	
Rotation from Flywheel End	Counterclockwise	
Aftertreatment	-	

Engine Dimensions - Approximate		
Length	3067 mm	120.8 in
Width	1785 mm	70.3 in
Height	1319 mm	71.1 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	6078 kg	13400 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.

### 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

- Air to Air Aftercooled (ATAAC)
- Two turbochargers, rear mounted

### Control System

- Electronic Engine Control, RH

### Cooling System

- Thermostats and housing
- Gear driven centrifugal jacket water pump
- Connections for radiator cooling

### Exhaust System

- Exhaust manifold, dry
- Two turbochargers with watercooled bearings
- Two exhaust outlets, 203 mm (8 in) round flange

### Flywheels and Flywheel Housing

- SAE No. 00 flywheel (183 teeth)
- SAE No. 00 flywheel housing

### Fuel System

- Fuel filter, LH spin-on type
- Fuel transfer pump
- Electronically controlled unit injectors

### Instrumentation



- No standard instrument or gauge panel

### **Lube System**

- Crankcase breather, top mounted
- Oil cooler
- Oil filler and dipstick, LH
- Oil pump
- Oil filter, LH, spin-on type
- Oil pan

### **Mounting System**

- Trunnion front support

### **Power Take Off**

- Front housing, two sided

### **Protection System**

- ECM monitoring system to provide customer programmable engine
- Deration strategies to protect against adverse operating conditions
- Emergency stop logic inputs provided at 40 pin customer interface connection

### **Starting System**

- Dual 24V electric starting motor

### **General**

- Vibration damper
- Lifting eyes
- Paint: Caterpillar yellow

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.