



No matter where they operate and no matter what the application, these high horsepower Cat® C32 ACERT™ Industrial Diesel engines will deliver durable, reliable power that will keep your customers productive while lowering their operating costs to keep them profitable. Today's Cat engines are the finest ever produced by Caterpillar - with a legacy of power and rugged reliability driven by the demands of performance. Applications powered by C32 ACERT engines include: Bore/Drill Rigs, Chippers/Grinders, Construction, Cranes, Dredgers, Forestry, Hydraulic Power Units, General Industrial, Irrigation Equipment, Material Handling, Mobile Earthmoving Equipment, Paving Equipment, Pumps, Shovels/Draglines, Surface Hauling Equipment and Trenchers. Cat® C32 ACERT™ Industrial Diesel Engines, with ratings: 746-895 kW (1000-1200 bhp) @ 1800 rpm, meet U.S. EPA Tier 4 Final mission standards. This information below about Emissions describes the particular rating's emissions technology. For more information about emissions certification, please contact your local Cat dealer.

## Specifications

Power Rating		
Minimum Power	746 kW	1000 bhp
Maximum Power	895 kW	1200 bhp
Rated Speed	1800 rpm	

Emission Standards	
Emissions	U.S. EPA Tier 4 Final

General	
Engine Configuration	V-12, 4-Stroke-Cycle Diesel
Bore	145 mm (5.71 in)
Stroke	162 mm (6.38 in)
Displacement	32.1 L (1958.9 in <sup>3</sup> )
Aspiration	Twin Turbocharged Aftercooled (TTA)
Compression Ratio	15.0:1
Combustion System	Direct Injection
Rotation (from flywheel end)	Counterclockwise
Cooling System Capacity	67.9 L (71.7 qt)
Lube System (refill)	68 L (71.9 qt)



Engine Dimensions (Approximate. Final dimensions dependent on selected options)	
Length	1874 mm (73.78 in)
Width	1600 mm (63 in)
Height	1370 mm (53.9 in)
Weight - Net Dry (Basic Operating Engine Without Optional Attachments)	3004 kg (6625 lb)



## Benefits And Features

### Emissions

Meets U.S. EPA Tier 4 Final 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

Simple and efficient dual turbochargers -- 1 per bank.

### Fuel Efficiency

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

### 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.

### Package Size

Exceptional power density enables standardization across numerous applications. Multiple installation options minimize total package size. Ideal for equipment with narrow engine compartments.

### Low Cost Maintenance

Worldwide service delivers ease of maintenance and simplifies the servicing routine. Service intervals at 250 hours are standards. Capable of optimal oil change intervals of up to 500-hours, depending on rating, application, operating conditions, and maintenance practices. No aftertreatment is required. 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

## Standard Equipment

### Air Inlet System

- Turbocharged
- Air-to-Air Aftercooled

### Control System

- Electronic control system
- Over-foam wiring harness
- Automatic altitude compensation
- Power compensated for fuel temperature
- Configurable software features
- Engine monitoring system SAE J1939 broadcast and control

### Cooling System

- Thermostats and housing, vertical outlet
- Jacket water pump, centrifugal
- Water pump, inlet

### Exhaust System

- Exhaust manifold, dry
- Optional exhaust outlet

### Flywheels and Flywheel Housing

- Choice of SAE No. 0 or SAE No. 1 flywheel housing

### Fuel System

- MEUI injection
- Fuel filter, secondary (2 micron)
- Electronic fuel priming

### Lube System

- Open crankcase ventilation system
- Oil cooler
- Oil filler
- Lube oil filter
- Rear sump oil pan
- Oil dipstick
- Gear driven oil pump

### Power Take Off (PTO)



## General

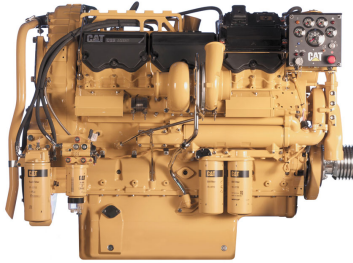
- Paint: Caterpillar yellow, with optional colors available at request

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.



Rating Type: IND-D RATING

Emissions: U.S. EPA Tier 4 Interim Nonroad Standards



**C32 ACERT**

**DITA**

**895 bkW (1200 bhp) @ 2100 rpm**

Image shown may not reflect actual configuration

**Metric**

**English**

<b>General Engine</b>		
Power Rating	895 kW	1200 hp
Number of Cylinders	12	
Bore	145 mm	5.7 in
Stroke	162 mm	6.4 in
Displacement	32.1 L	1959.0 cu in.
Compression Ratio	15.0 : 1	

### RATING DEFINITIONS AND CONDITIONS

**D-RATING:**For service where maximum power is required for periodic overloads (time at full load not to exceed 10% of the duty cycle).

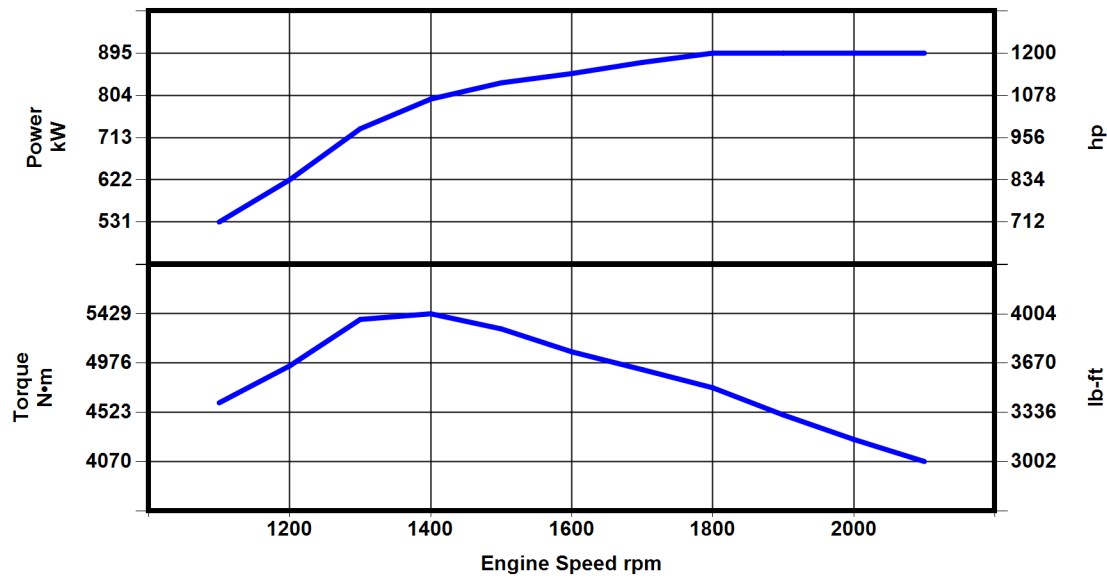
Diesel Engines — up to 7.1 liter All rating conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Diesel Engines — greater than 7.1 liter All rating conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.



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Engine Speed rpm	Engine Power bkW	Engine Power bhp	Torque N*m	Torque lb-ft
2100	895	1200	4070	3002
2000	895	1200	4273	3152
1900	895	1200	4498	3318
1800	895	1200	4748	3502
1700	875	1173	4915	3625
1600	851	1141	5079	3746
1500	831	1114	5290	3902
1400	796	1067	5429	4005
1300	732	982	5377	3966
1200	622	834	4950	3651
1100	531	712	4610	3400

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