



**C32 ACERT™**  
**Industrial Engine**  
Tier 2  
1007 bkW/1350 bhp @ 2100 rpm

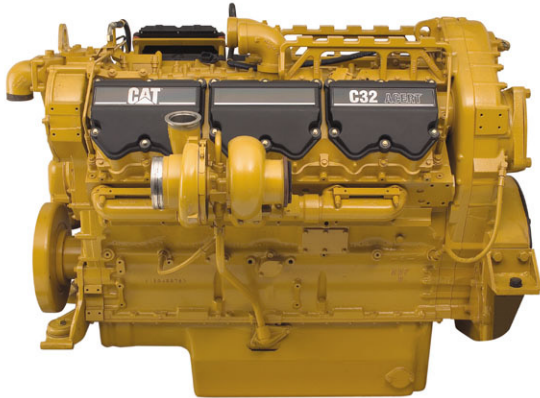


Image shown may not reflect actual engine

## CAT® ENGINE SPECIFICATIONS

### Vee 12 Cylinder, 4-Stroke-Cycle Diesel

Bore.....	145.0 mm (5.71 in)
Stroke.....	162.0 mm (6.38 in)
Displacement.....	32.1 L (1,958.86 in <sup>3</sup> )
Aspiration.....	Turbocharged Aftercooled
Compression Ratio.....	16.5:1
Rotation (from flywheel end).....	Counterclockwise
Weight, Net Dry (approximate kg. lb).....	2946 kg (6495 lb)

## FEATURES

### Emissions

Meets U.S. EPA Tier 2 emissions requirements.

### Worldwide Supplier Capability

Caterpillar

- Casts engine blocks, heads, cylinder liners, and flywheel housings
  - Machines critical components
  - Assembles complete engine
  - Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities
- Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable product.

### Testing

Prototype testing on every model:

- proves computer design
- verifies system torsional stability
- functionality tests every model

Every Caterpillar engine is dynamometer tested under full load to ensure proper engine performance.

### Full Range of Attachments

Wide range of bolt-on system expansion attachments, factory designed and tested.

### Unmatched Product Support Offered Through Worldwide Caterpillar Dealer Network

More than 1,800 dealer outlets  
Caterpillar factory-trained dealer technicians service every aspect of your industrial engine  
99.7% of parts orders filled within 24 hours worldwide  
Caterpillar parts and labor warranty  
Preventive maintenance agreements available for repair before failure options

Scheduled Oil Sampling program matches your oil sample against Caterpillar set standards to determine:

- internal engine component condition
- presence of unwanted fluids
- presence of combustion by-products

### Web Site

For all your industrial power requirements, visit [www.cat-industrial.com](http://www.cat-industrial.com).



## STANDARD ENGINE EQUIPMENT

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### **Air Inlet System**

Turbocharged Air to Air Aftercooled

### **Control System**

Electronic governing  
PTO speed control  
Programmable ratings  
Cold mode start strategy  
Automatic altitude compensation  
Power compensation for fuel temperature  
Programmable low and high idle and total engine limit  
Electronic diagnostics and fault logging  
Engine monitoring system  
J1939 Broadcast (diagnostic and engine status)  
ADEM™ A4

### **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**

SAE No. 1 Flywheel housing

### **Fuel System**

MEUI injection  
Fuel filter, secondary (2 micron high performance)  
Fuel transfer pump  
Fuel priming pump  
ACERT™ Technology

### **Lube System**

Crankcase breather  
Oil cooler  
Oil filler  
Oil filter  
Oil pan front sump  
Oil dipstick  
Oil pump (gear driven)

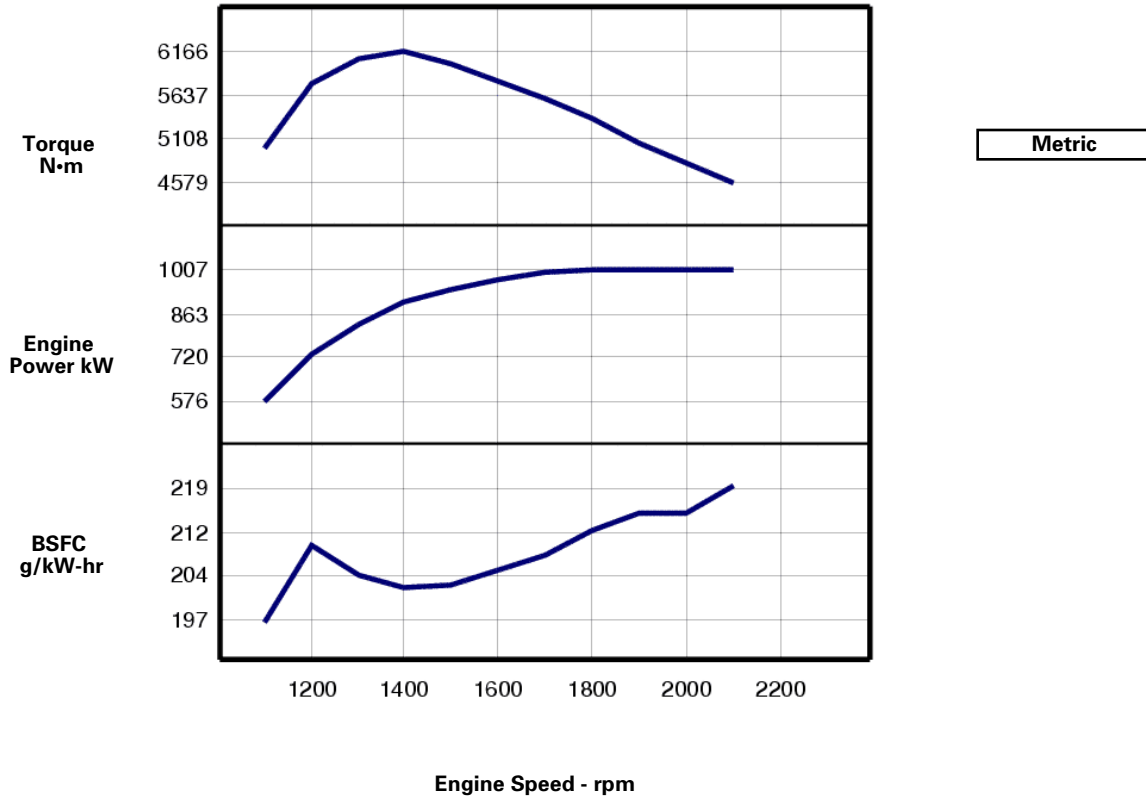
### **General**

Paint, Caterpillar Yellow  
Vibration damper  
Lifting eyes



**PERFORMANCE CURVES**

**IND - E - DM9033-00**

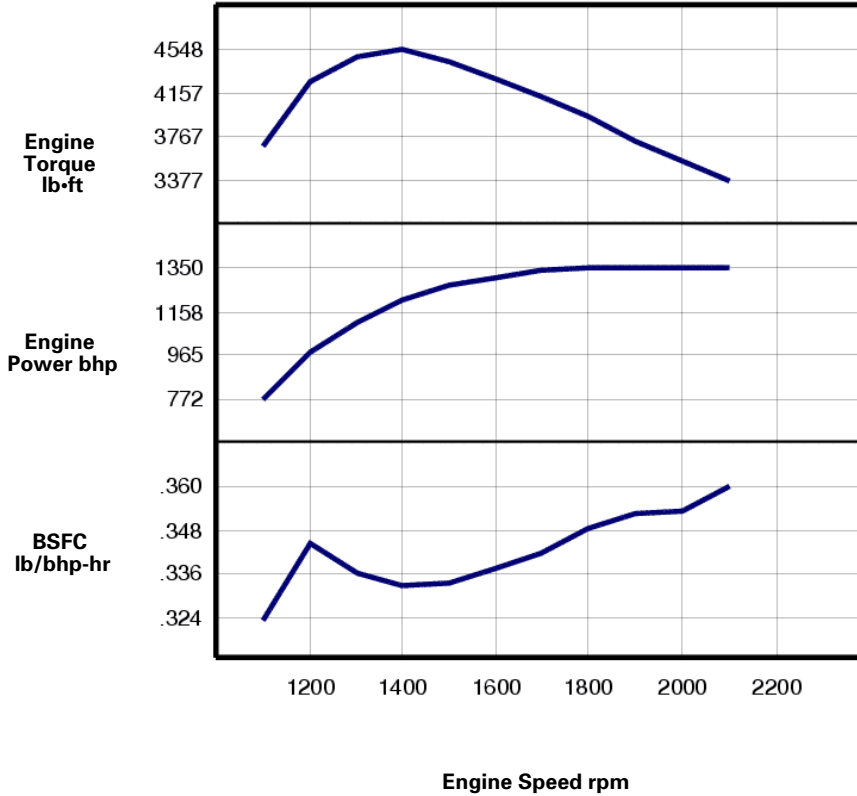


Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2100	1007	4579	219.1	263.0
2000	1007	4808	214.8	257.9
1900	1007	5061	214.5	257.4
1800	1007	5342	211.9	254.3
1700	996	5595	207.8	246.7
1600	974	5813	205.1	238.1
1500	945	6016	202.8	228.4
1400	904	6166	202.3	217.9
1300	829	6089	204.3	201.8
1200	727	5788	209.3	181.5
1100	576	4999	196.7	135.0



**PERFORMANCE CURVES**

**IND - E - DM9033-00**



English

Engine Speed rpm	Engine Power bhp	Engine Torque lb-ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	1350	3377	.360	69.5
2000	1350	3546	.353	68.1
1900	1350	3733	.353	68.0
1800	1350	3940	.348	67.2
1700	1336	4127	.342	65.2
1600	1306	4287	.337	62.9
1500	1267	4437	.333	60.3
1400	1212	4548	.333	57.6
1300	1112	4491	.336	53.3
1200	975	4269	.344	47.9
1100	772	3687	.323	35.7

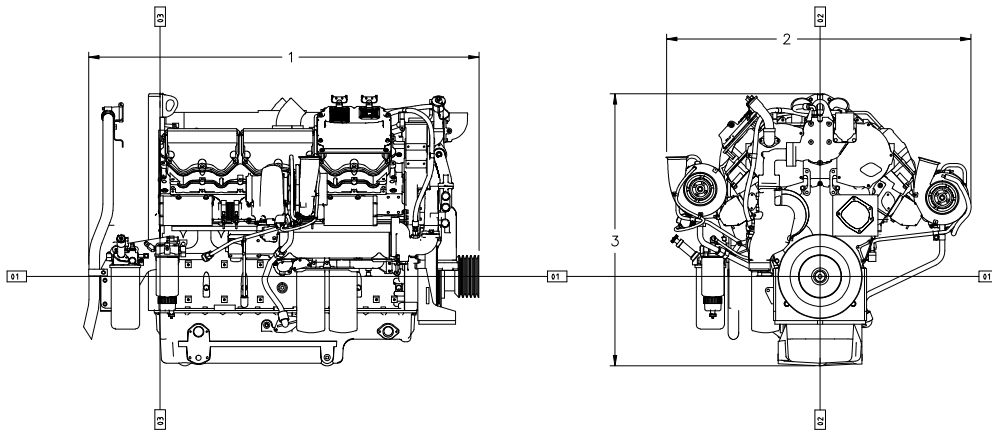


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**RATINGS AND CONDITIONS**

**IND - E** For service where maximum power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable (time at full load not to exceed 5% of the duty cycle).

**Engine Performance** Diesel Engines — 7 liter and higher  
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.



Engine Dimensions	
(1) Length	See page Specifications for Dimensions
(2) Width	
(3) Height	

**Note: Do not use for installation design. See general dimension drawings for detail (Drawing # null ).**

Performance Number: DM9033-00  
Feature Code: C32DI11 Arr. Number: 3505525  
Materials and specifications are subject to change without notice.  
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