



C32 ACERT™ Industrial Engine

Tier 2
709 bkW/950 bhp @ 2100 rpm

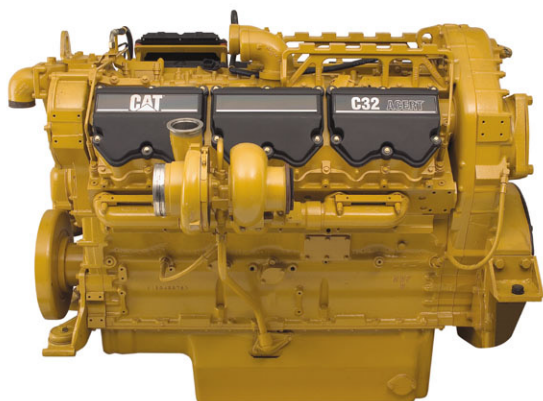


Image shown may not reflect
actual engine

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 in³)
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.



STANDARD ENGINE EQUIPMENT

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

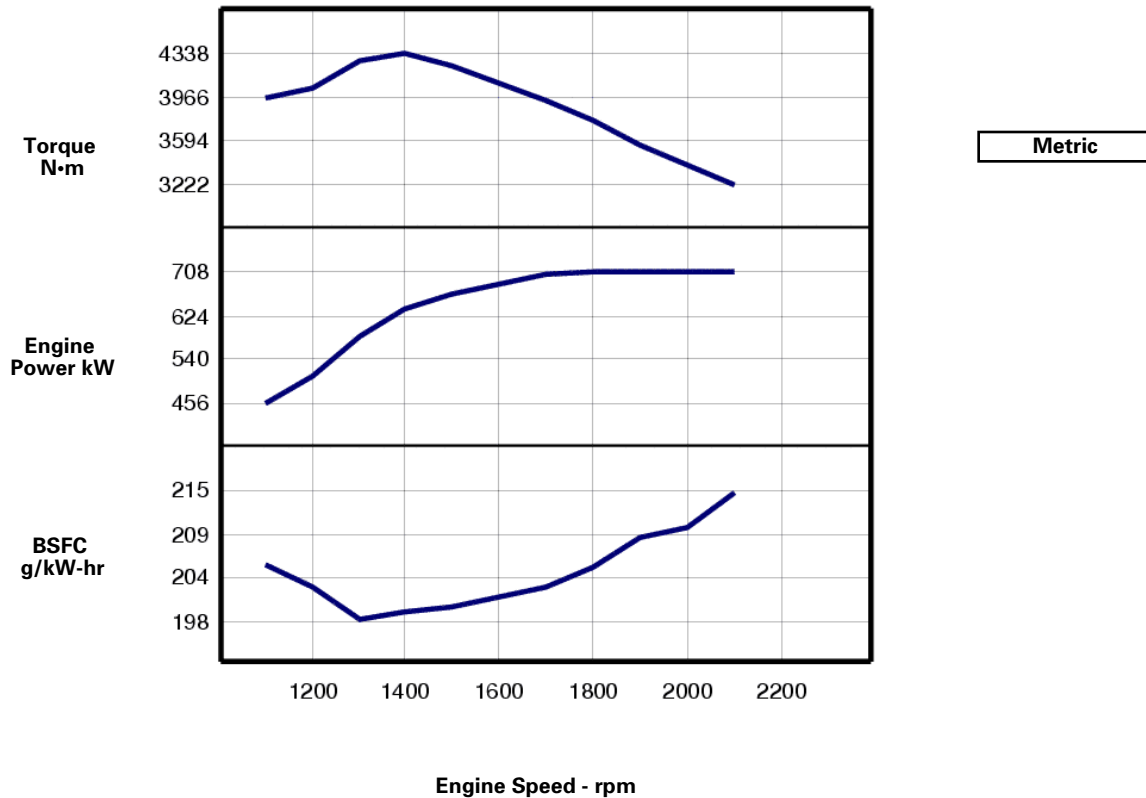
Paint, Caterpillar Yellow
Vibration damper
Lifting eyes



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PERFORMANCE CURVES

IND - B - DM9030-00



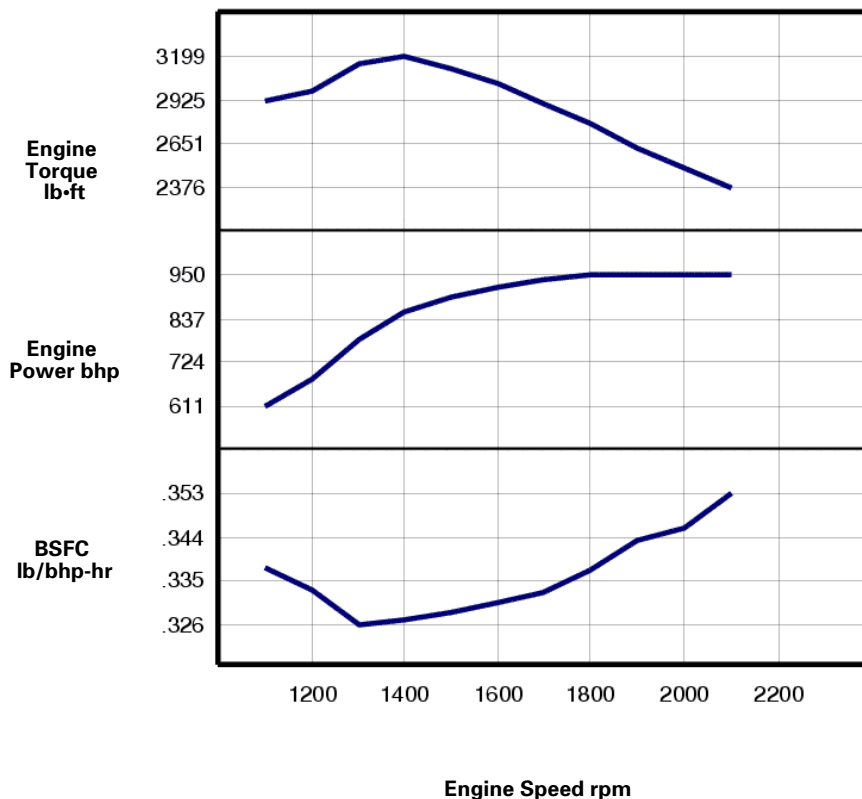
Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2100	709	3222	214.8	181.4
2000	709	3383	210.2	177.6
1900	709	3561	208.8	176.3
1800	709	3759	205	173.1
1700	701	3938	202.3	169.0
1600	686	4094	201	164.4
1500	665	4234	199.8	158.4
1400	636	4338	198.9	150.8
1300	583	4283	198.2	137.7
1200	509	4049	202.5	122.8
1100	456	3958	205.4	111.6



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Engine Speed rpm	Engine Power bhp	Engine Torque lb·ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	950	2376	.353	47.9
2000	950	2495	.346	46.9
1900	950	2626	.343	46.6
1800	950	2772	.337	45.7
1700	940	2905	.333	44.6
1600	920	3020	.330	43.4
1500	892	3123	.328	41.8
1400	853	3200	.327	39.8
1300	782	3159	.326	36.4
1200	682	2986	.333	32.4
1100	611	2919	.338	29.5



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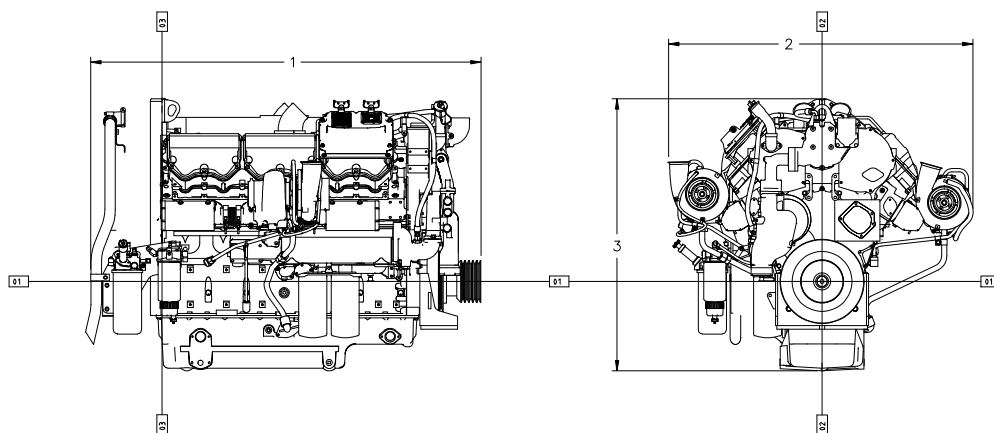
RATINGS AND CONDITIONS

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IND - B For service where power and/or speed are cyclic (time at full load not to exceed 80%).

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: DM9030-00

Feature Code: C32DI05 Arr. Number: 3505525

Materials and specifications are subject to change without notice.

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