



C15 ACERT™
Industrial Engine
Tier 3/Stage IIIA
354 bkW/475 bhp @ 2100 rpm

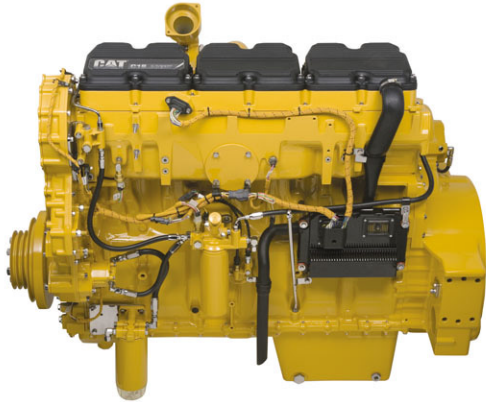


Image shown may not reflect actual engine

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore.....	137.2 mm (5.4 in)
Stroke.....	171.4 mm (6.75 in)
Displacement.....	15.2 L (927.56 in ³)
Aspiration.....	Turbocharged Aftercooled
Compression Ratio.....	18.0:1
Rotation (from flywheel end).....	Counterclockwise
Weight, Net Dry (approximate kg. lb).....	1469 kg (3239 lb)

FEATURES

Emissions

Meets U.S. EPA Tier 3, EU Stage IIIA emission 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.



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STANDARD ENGINE EQUIPMENT

Air Inlet System

ATAAC
Turbocharged

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



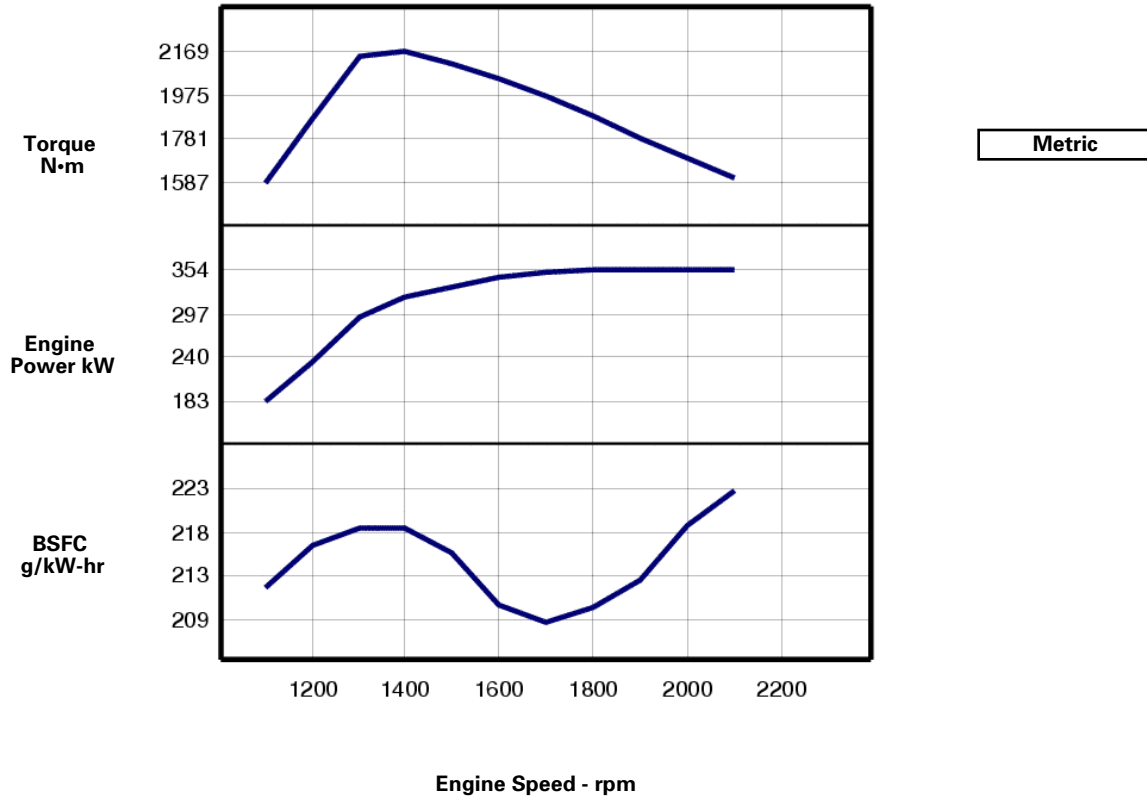
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PERFORMANCE CURVES

IND - B - DM7707-02



Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2100	354	1611	223	94.2
2000	354	1691	219.1	92.5
1900	354	1780	213	89.9
1800	354	1879	210.1	88.7
1700	350	1966	208.6	87.0
1600	343	2047	210.3	86.0
1500	332	2114	216.1	85.5
1400	318	2169	218.9	83.0
1300	292	2145	218.8	76.1
1200	235	1866	217	60.7
1100	183	1587	212.4	46.3



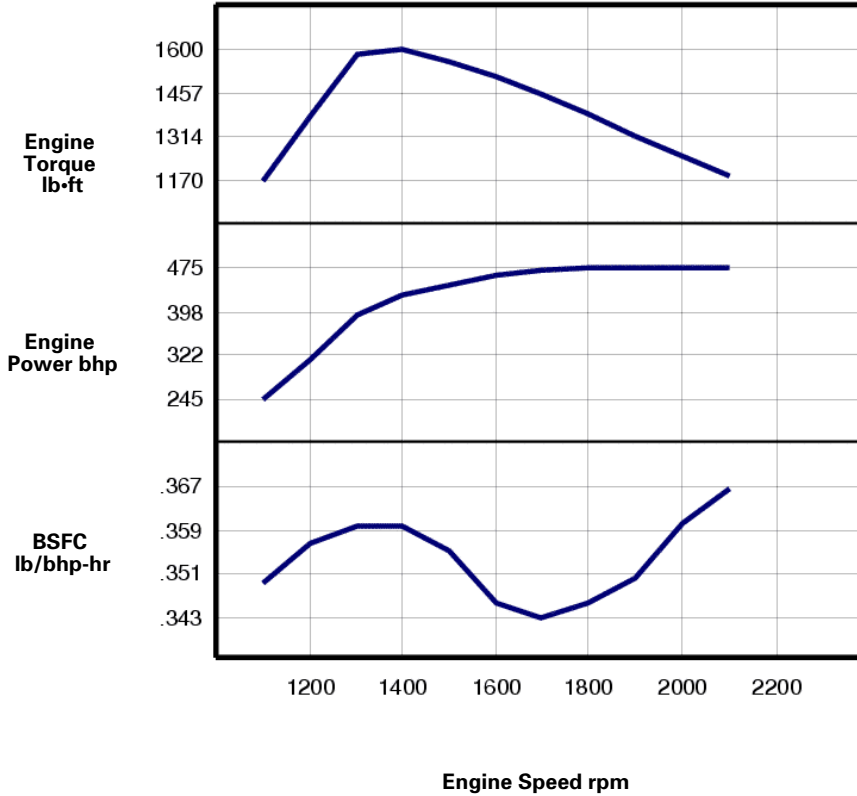
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PERFORMANCE CURVES

IND - B - DM7707-02



English

Engine Speed rpm	Engine Power bhp	Engine Torque lb-ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	475	1188	.367	24.9
2000	475	1247	.360	24.4
1900	475	1313	.350	23.7
1800	475	1386	.345	23.4
1700	469	1450	.343	23.0
1600	460	1510	.346	22.7
1500	445	1559	.355	22.6
1400	426	1600	.360	21.9
1300	392	1582	.360	20.1
1200	314	1376	.357	16.0
1100	245	1171	.349	12.2

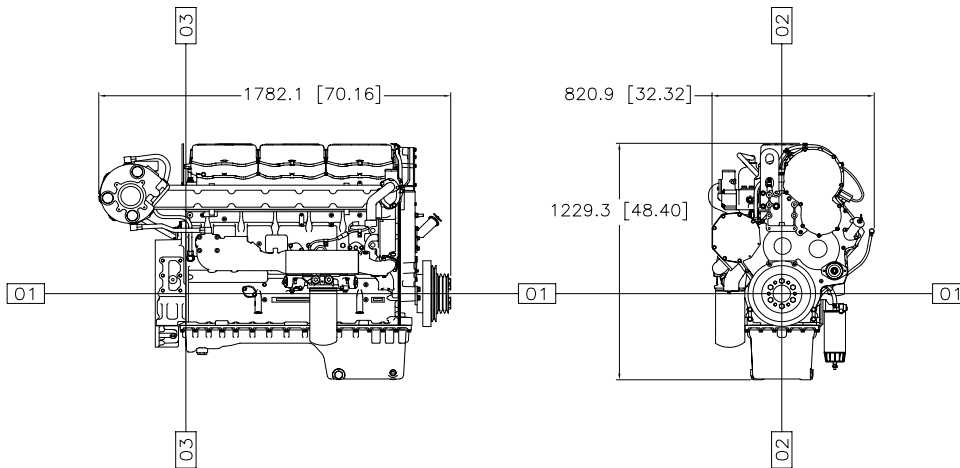


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RATINGS AND CONDITIONS

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	1380.9 mm (54.37 in)
(2) Width	926.4 mm (36.47 in)
(3) Height	1248.3 mm (49.15 in)

Note: Do not use for installation design. See general dimension drawings for detail (Drawing # 2579952).

Performance Number: DM7707-02

Feature Code: C15DI21 Arr. Number: 3004940

Materials and specifications are subject to change without notice.
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