



C15 ACERT™

Industrial Engine

Tier 3/Stage IIIA
328 bkW/440 bhp @ 2100 rpm

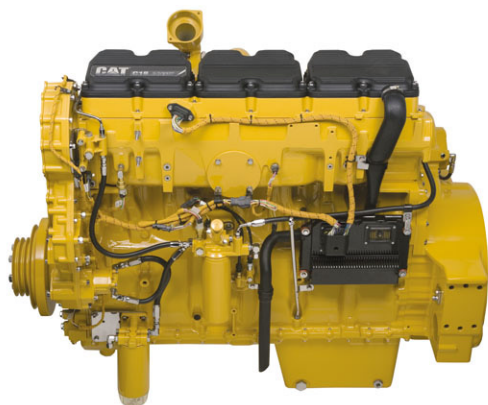


Image shown may not reflect actual engine

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 in³)
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.



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



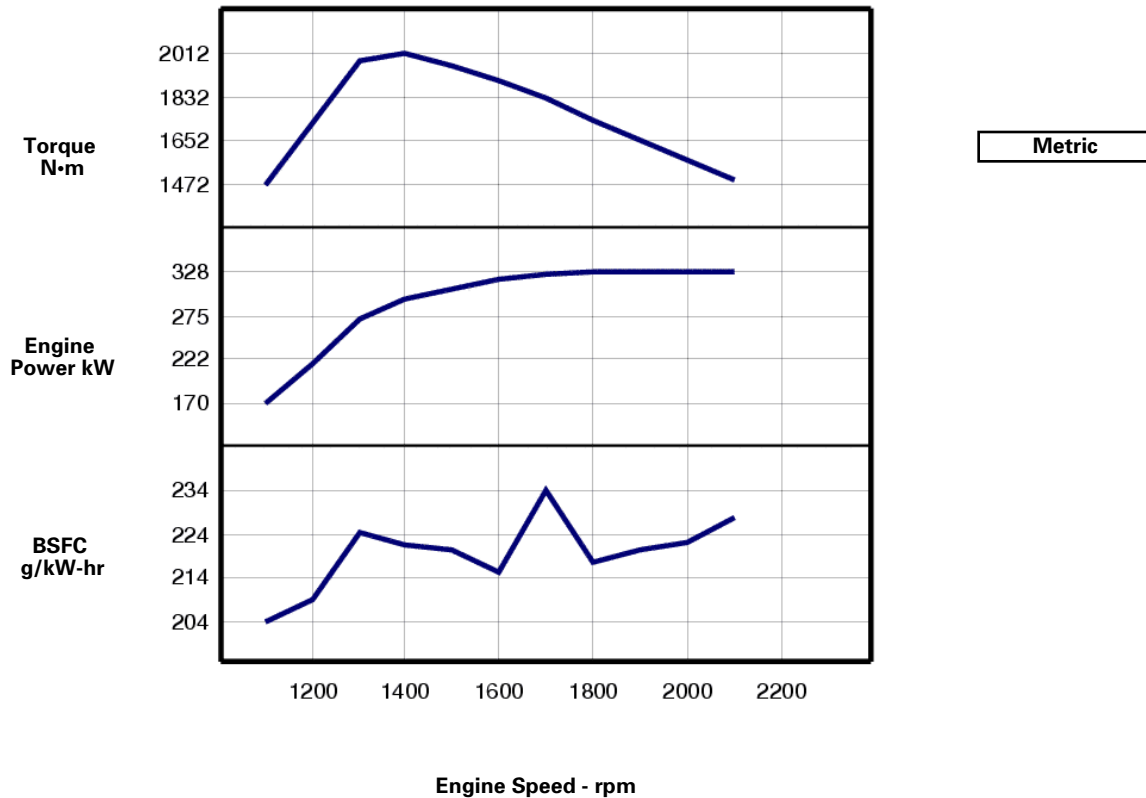
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PERFORMANCE CURVES

IND - A (Continuous) - DM7706-01



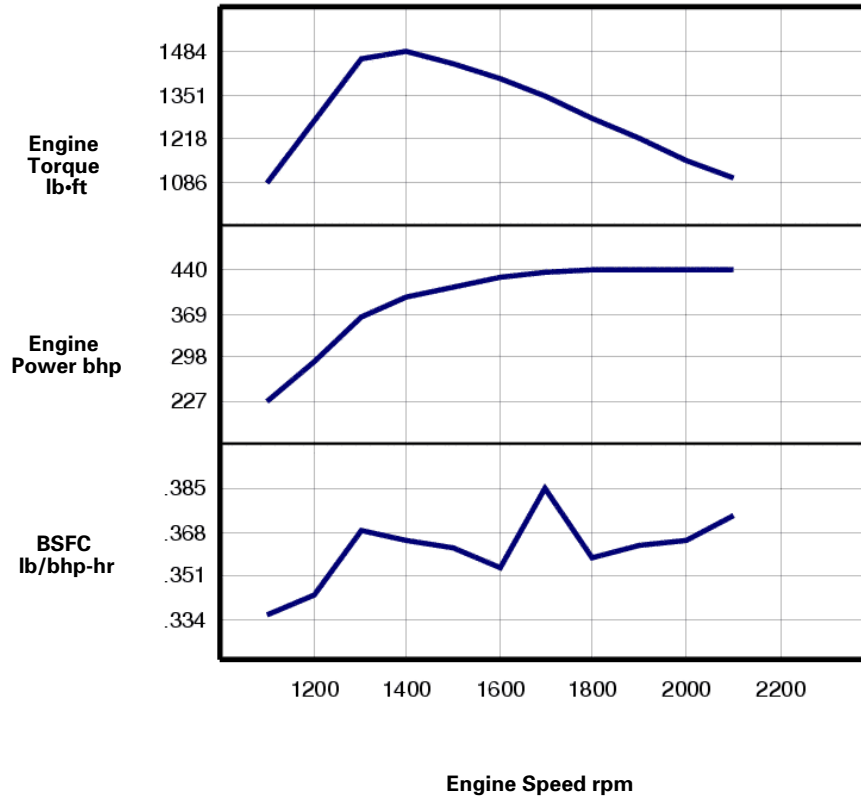
Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2100	328	1492	227.7	89.1
2000	328	1567	221.9	86.8
1900	328	1649	220.5	86.2
1800	328	1740	217.5	85.0
1700	325	1826	233.9	90.6
1600	318	1898	215.4	81.6
1500	308	1961	220.3	80.9
1400	295	2012	221.7	78.0
1300	270	1983	224.1	72.1
1200	217	1728	208.9	54.1
1100	170	1472	204	41.2



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Engine Speed rpm	Engine Power bhp	Engine Torque lb·ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	440	1100	.374	23.5
2000	440	1156	.365	22.9
1900	440	1216	.363	22.8
1800	440	1283	.358	22.5
1700	436	1347	.385	23.9
1600	426	1400	.354	21.6
1500	413	1446	.362	21.4
1400	396	1484	.364	20.6
1300	362	1463	.368	19.0
1200	291	1275	.343	14.3
1100	227	1086	.335	10.9



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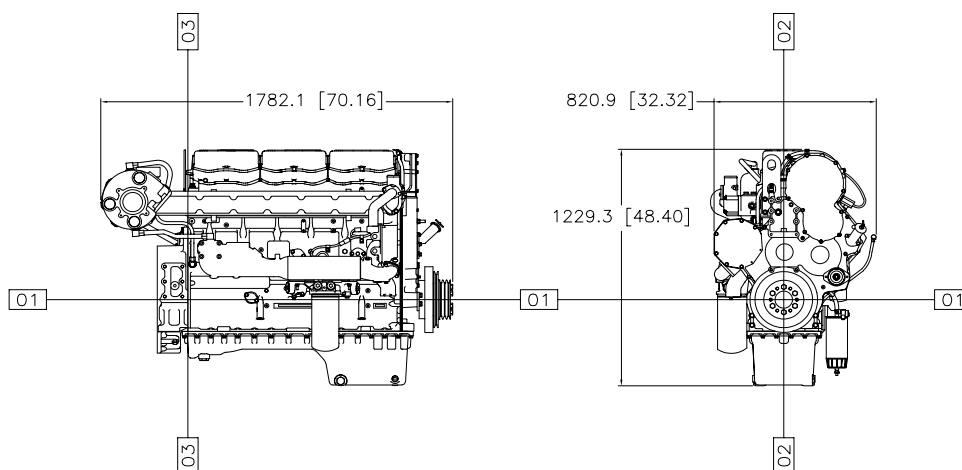
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RATINGS AND CONDITIONS

IND - A (Continuous) Continuous heavy duty service where the engine is operated at maximum power and speed up to 100% of the time without interruption or load cycling.

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: DM7706-01

Feature Code: C15DI10 Arr. Number: 2543832

Materials and specifications are subject to change without notice.

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