



C11 ACERT™

Industrial Engine

Tier 3/Stage IIIA
242 bkW/325 bhp @ 2100 rpm



Image shown may not reflect actual engine

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore..... 130.0 mm (5.12 in)
Stroke..... 140.0 mm (5.51 in)
Displacement..... 11.1 L (677.36 in³)
Aspiration..... Turbocharged Aftercooled
Compression Ratio..... 17.2:1
Rotation (from flywheel end)..... Counterclockwise
Weight, Net Dry (approximate kg, lb).... 930 kg (2050 lb)

FEATURES

Emissions

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

Worldwide Supplier Capability

Caterpillar

- Casts engine blocks, heads, and cylinder liners
- 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 1,500 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

Air to air aftercooled (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

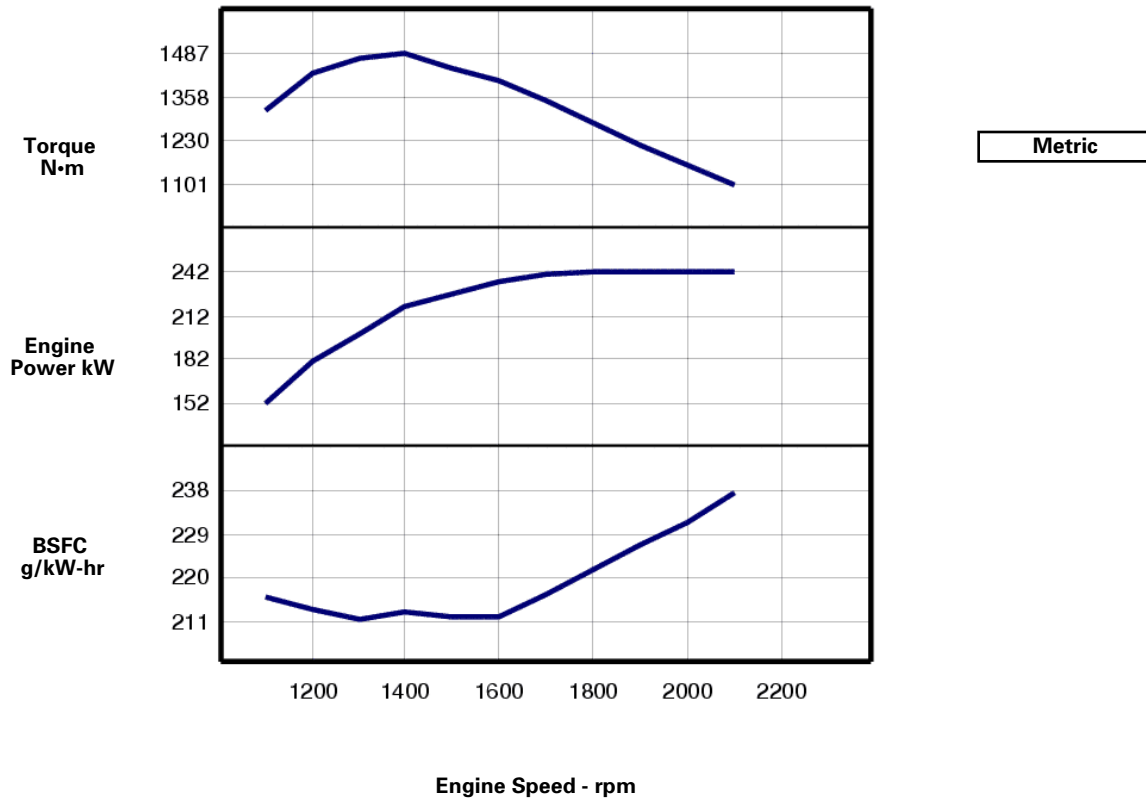
Paint, Caterpillar Yellow
Vibration damper
Lifting eyes



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PERFORMANCE CURVES

IND - A (Continuous) - DM7690-05



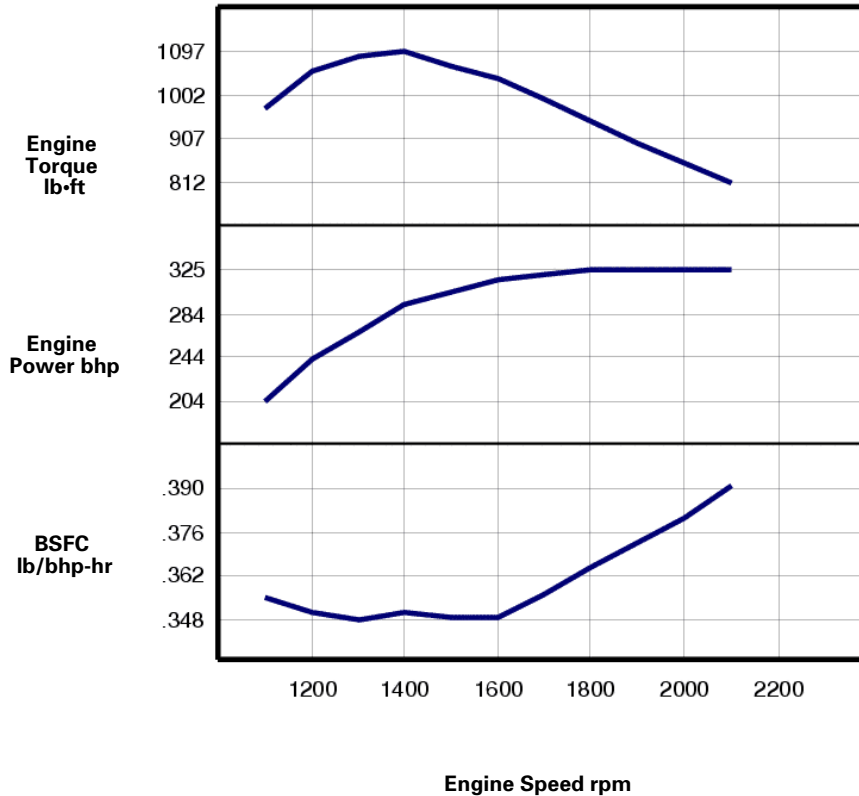
Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2100	242	1101	237.5	68.5
2000	242	1156	231.3	66.7
1900	242	1216	226.5	65.4
1800	242	1284	221.7	63.9
1700	240	1348	216.5	61.9
1600	235	1405	211.9	59.4
1500	227	1445	212.1	57.4
1400	218	1487	212.8	55.3
1300	200	1469	211.5	50.4
1200	180	1432	213.2	45.8
1100	152	1320	216.1	39.2



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Engine Speed rpm	Engine Power bhp	Engine Torque lb·ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	325	812	.390	18.1
2000	325	853	.380	17.6
1900	325	897	.372	17.3
1800	325	947	.364	16.9
1700	322	994	.356	16.4
1600	316	1036	.348	15.7
1500	304	1066	.349	15.2
1400	292	1097	.350	14.6
1300	268	1083	.348	13.3
1200	241	1056	.351	12.1
1100	204	974	.355	10.4



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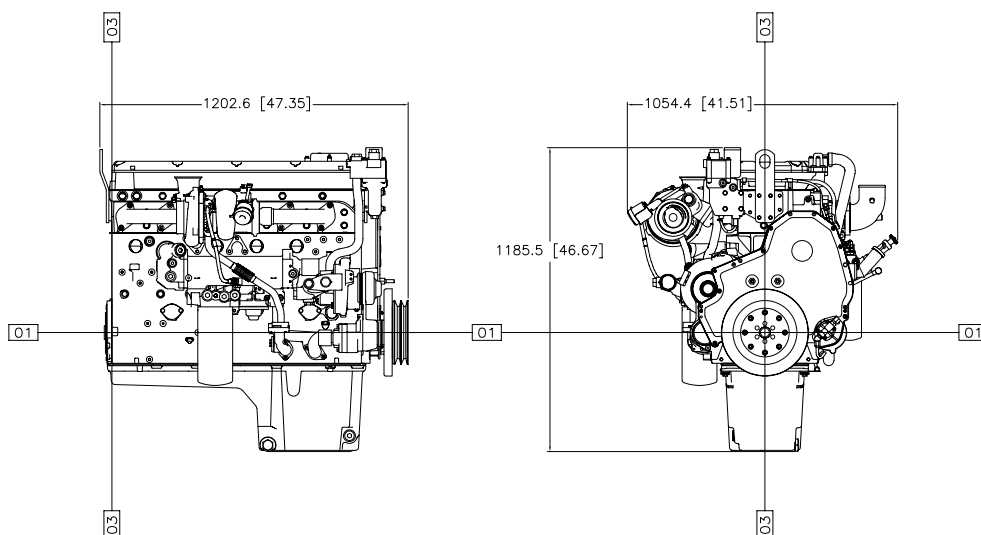
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RATINGS AND CONDITIONS

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	1202.6 mm (47.35 in)
(2) Width	1054.4 mm (41.51 in)
(3) Height	1185.5 mm (46.67 in)

Note: Do not use for installation design.
See general dimension drawings for detail (Drawing # 2588858).

Performance Number: DM7690-05

Feature Code: C11DI00 Arr. Number: 2364572

Materials and specifications are subject to change without notice.

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