



3406 C
Industrial Engine
Non-Certified
269 bkW/360 bhp @ 1800 rpm

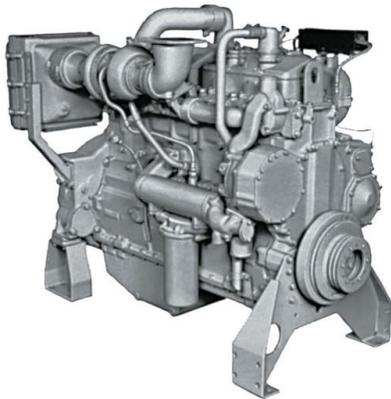


Image shown may not reflect actual engine

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore.....	137.2 mm (5.4 in)
Stroke.....	165.1 mm (6.5 in)
Displacement.....	14.64 L (893.39 in ³)
Aspiration.....	Turbocharged / Aftercooled
Compression Ratio.....	15.9:1
Rotation (from flywheel end).....	Counterclockwise
Capacity for Liquids	
Cooling System.....	20.8 L (5.5 gal)
Lube Oil System (refill).....	38.0 L (10.0 gal)
Engine Weight, Net Dry (approximate)..	1,512 kg (3,333 lb)

FEATURES

Emissions

Non-certified rating. Meets emission levels for Tier 1 / Stage I standards.

Single Source Supplier

Caterpillar
- Casts engine blocks, heads, cylinder liners, and flywheel housings
- Machines critical components
- Assembles complete engine
Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable product.

Factory-designed systems built at Caterpillar ISO certified facilities.

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.



STANDARD ENGINE EQUIPMENT

Air Inlet System

Air cleaner, Regular duty, dry, panel type with service indicators, turbocharger, jacket water aftercooled

Control System

Governor, Hydra-mechanical

Cooling System

Thermostats and housing, Jacket water pump, gear driven, centrifugal, RH

Exhaust System

Exhaust manifold, dry, front exhaust
Exhaust elbow, dry, 152 mm (6 in), 4 bolt flange
127 mm (5 in) on 406DO12

Flywheels and Flywheel Housings

Flywheel, SAE No. 1
Flywheel housing, SAE No. 1, SAE standard rotation

Fuel Systems

Fuel Filter, LH
Fuel transfer pump
Fuel priming pump

Instrumentation

Instrument Panel, LH
Engine oil pressure gauge
Fuel pressure gauge
Water temperature gauge
Service meter

Lube System

Crankcase breather
Oil cooler, RH
Oil filter, RH
Oil filler in valve cover and dipstick, both RH
Rear sump oil pan

Mounting System

Supports

General

Paint, Caterpillar Yellow
Vibration damper and guard
Lifting eyes



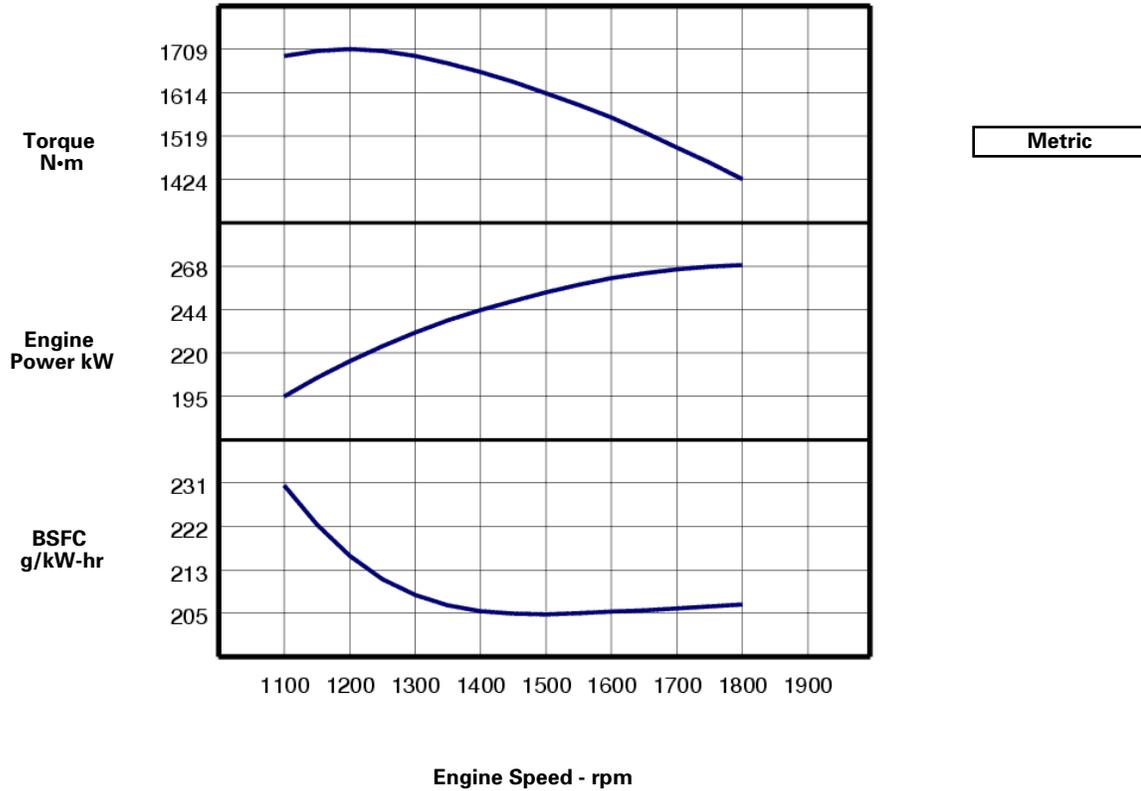
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PERFORMANCE CURVES

IND - C (Intermittent) - DM2169-01



Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
1800	269	1424	206.6	66.1
1750	268	1460	206.2	65.7
1700	266	1494	205.8	65.1
1650	264	1527	205.4	64.4
1600	261	1559	205.1	63.6
1550	258	1587	204.8	62.6
1500	253	1612	204.6	61.6
1450	249	1637	204.7	60.5
1400	243	1659	205.2	59.4
1350	237	1678	206.4	58.3
1300	231	1694	208.5	57.2
1250	223	1705	211.8	56.1
1200	215	1709	216.5	55.1
1150	205	1705	222.8	54.3
1100	195	1694	230.7	53.7



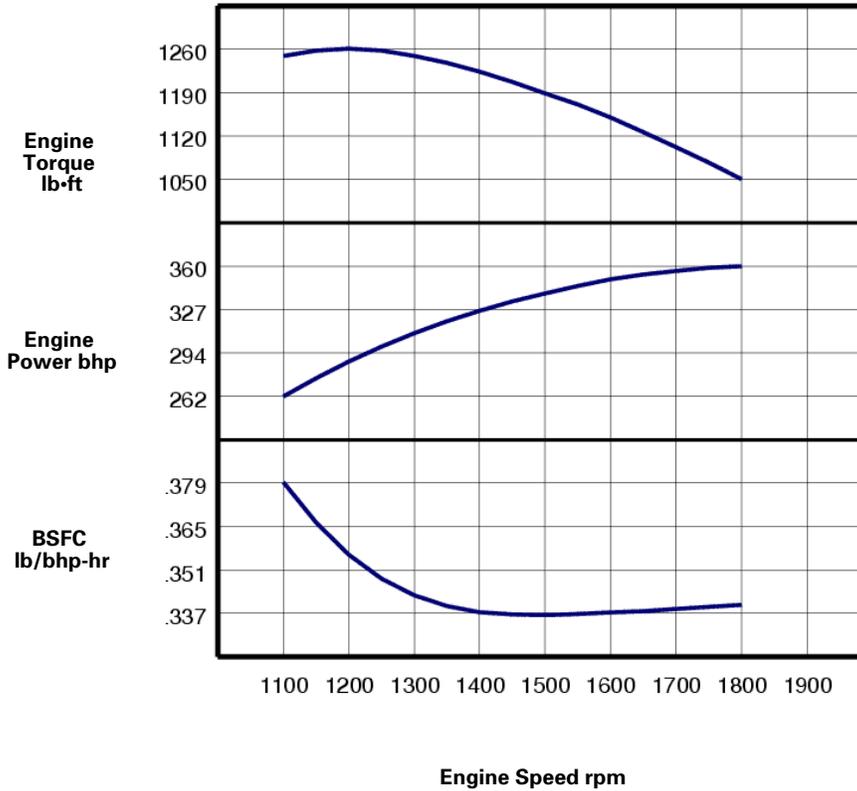
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PERFORMANCE CURVES

IND - C (Intermittent) - DM2169-01



Engine Speed rpm	Engine Power bhp	Engine Torque lb-ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
1800	360	1050	.340	17.5
1750	359	1077	.339	17.4
1700	357	1102	.338	17.2
1650	354	1126	.338	17.0
1600	350	1150	.337	16.8
1550	345	1171	.337	16.5
1500	340	1189	.336	16.3
1450	333	1207	.337	16.0
1400	326	1224	.337	15.7
1350	318	1238	.339	15.4
1300	309	1249	.343	15.1
1250	299	1258	.348	14.8
1200	288	1260	.356	14.6
1150	275	1258	.366	14.3
1100	262	1249	.379	14.2



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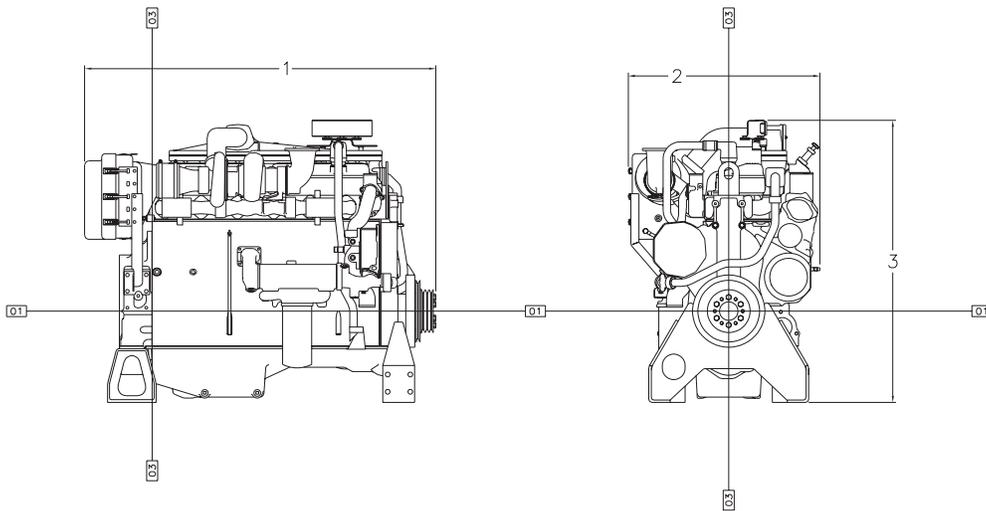
RATINGS AND CONDITIONS

IND - C (Intermittent) Intermittent service where maximum power and/or speed are cyclic. The power and speed capability of the engine can be utilized for one uninterrupted hour followed by one hour of operation at or below IND - A. Time at full load is not to exceed 50% of the duty cycle. Typical service examples are: agricultural tractors, harvesters and combines, off highway trucks, fire pump application power, blast hole drills, rock crushers and wood chippers with high torque rise, and oil field hosting.

Engine Performance Engine performance is corrected to inlet air standard conditions of 99 KPA (29.31 IN HG) dry barometer and 25 deg C (77 deg F) temperature. These values correspond to the standard atmospheric pressure and temperature as shown in SAE J1995.

Performance measured using a standard fuel with fuel gravity of 35 degrees API having a lower heating value of 42,780 KJ/KG (18,390 BTU/LB) when used at 29 DEG (84.2 DEG F) where the density is 838.9 G/L (7.001 LB/US GAL).

The corrected performance values shown for Caterpillar engines will approximate the values obtained when the observed performance data is corrected to SAE J1995, ISO 3046-2 and 8665 and 2288 and 9249 and 1585, EEC 80/1269 and DIN 70020 standard reference conditions.



Engine Dimensions	
(1) Length	1660.1 mm (65.36 in)
(2) Width	905.7 mm (35.66 in)
(3) Height	1335.0 mm (52.56 in)

Note: Do not use for installation design. See general dimension drawings for detail (Drawing # 1324895).

Performance Number: DM2169-01

Feature Code: 406DI04 Arr. Number: 1266205

Materials and specifications are subject to change without notice.

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