



3406 C
Industrial Engine
Non-Certified
362 bkW/485 bhp @ 2100 rpm

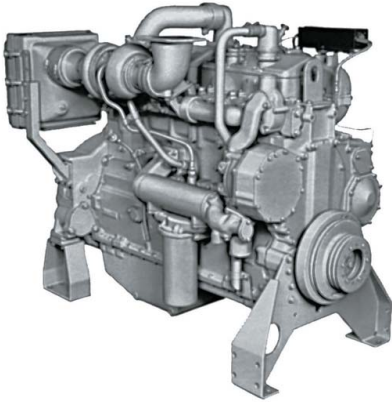


Image shown may not reflect actual engine

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore.....	137.2 mm (5.4 in)
Stroke.....	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)..	1,514 kg (3,338 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

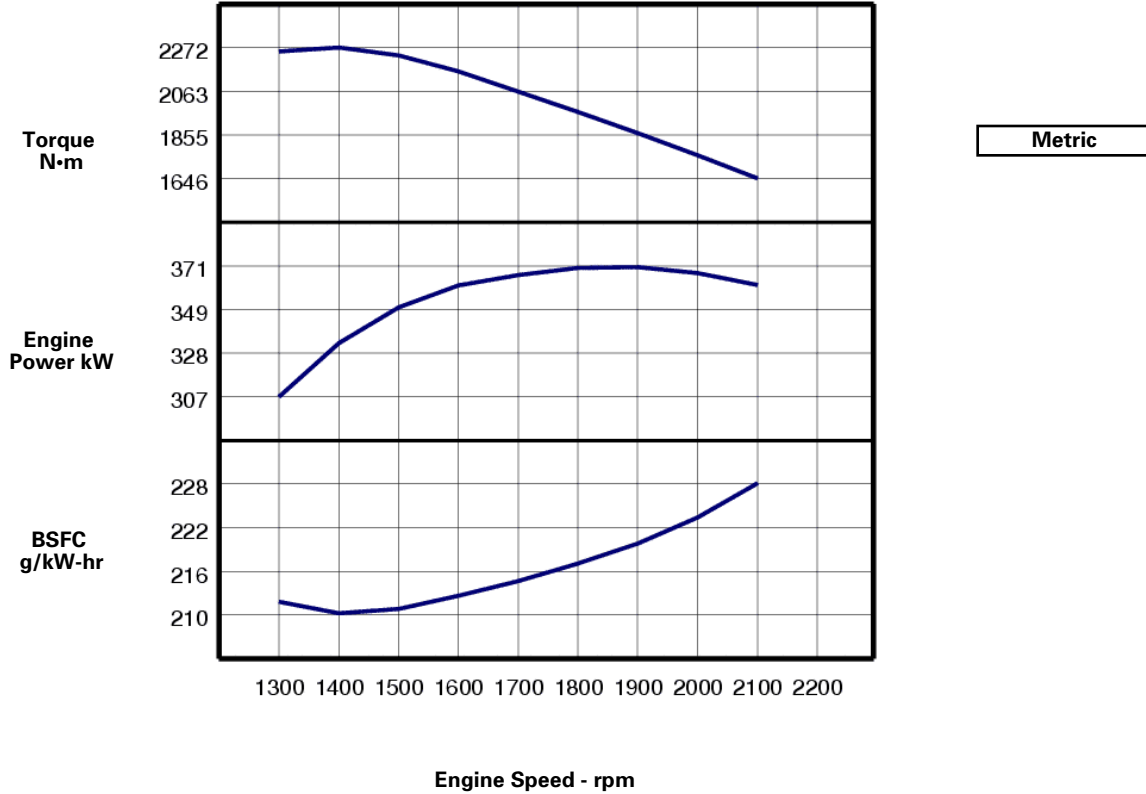
General

Paint, Caterpillar Yellow
Vibration damper and guard
Lifting eyes



PERFORMANCE CURVES

IND - E - DM2164-01

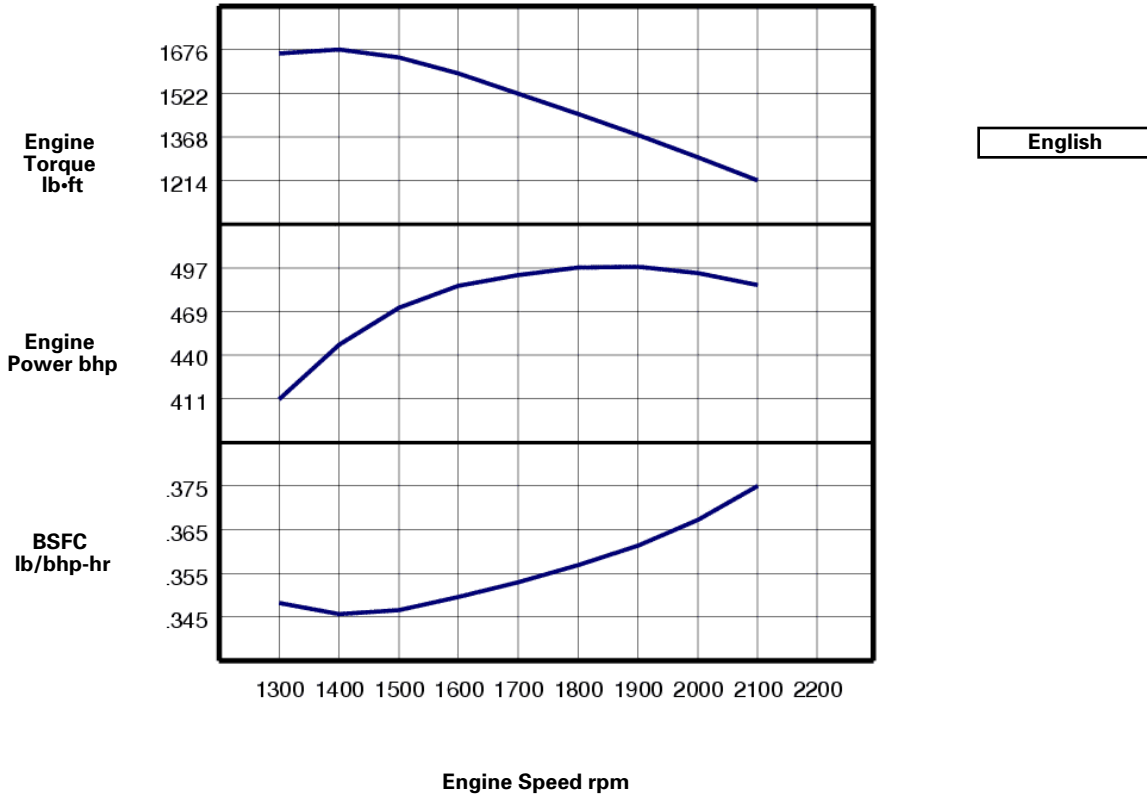


Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2100	362	1646	228.1	98.4
2000	368	1756	223.4	97.9
1900	371	1864	219.8	96.9
1800	370	1965	217.1	95.6
1700	367	2061	214.7	93.9
1600	362	2159	212.6	91.5
1500	351	2233	210.8	87.9
1400	333	2272	210.2	83.2
1300	307	2252	211.8	77.4



PERFORMANCE CURVES

IND - E - DM2164-01



Engine Speed rpm	Engine Power bhp	Engine Torque lb-ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	485	1214	.375	26.0
2000	493	1295	.367	25.9
1900	497	1375	.361	25.6
1800	497	1449	.357	25.3
1700	492	1520	.353	24.8
1600	485	1592	.350	24.2
1500	470	1647	.347	23.2
1400	447	1676	.346	22.0
1300	411	1661	.348	20.4



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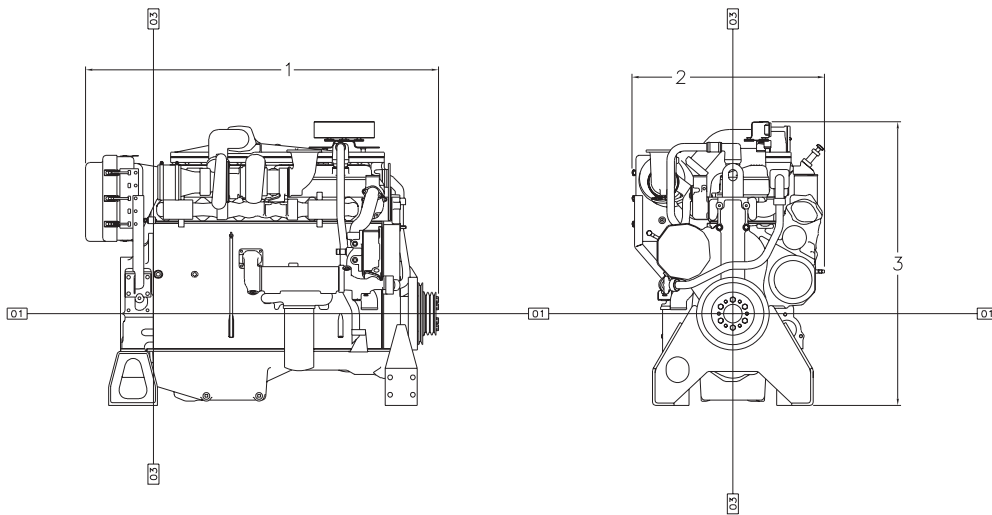
RATINGS AND CONDITIONS

IND - E For service where maximum power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable. The maximum power and speed capability of the engine can be utilized for a maximum of 15 uninterrupted minutes followed by one hour at IND - C power or duration of the emergency. Time at full load is not to exceed 5% of the duty cycle. Typical service examples are: standby centrifugal water pumps, oil field well servicing, crash trucks and gas turbine starters.

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: DM2164-01

Feature Code: 406DI03 Arr. Number: 1247634

Materials and specifications are subject to change without notice.

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