



3406 C

Industrial Engine

Non-Certified
325 bkW/435 bhp @ 2100 rpm

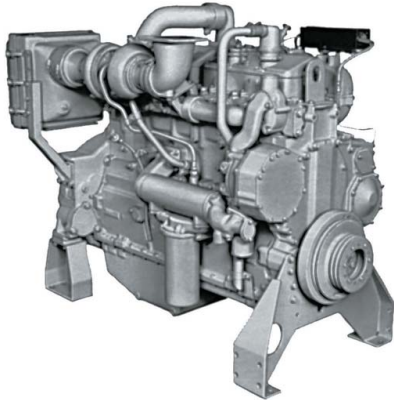


Image shown may not reflect actual engine

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 in³)
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.



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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

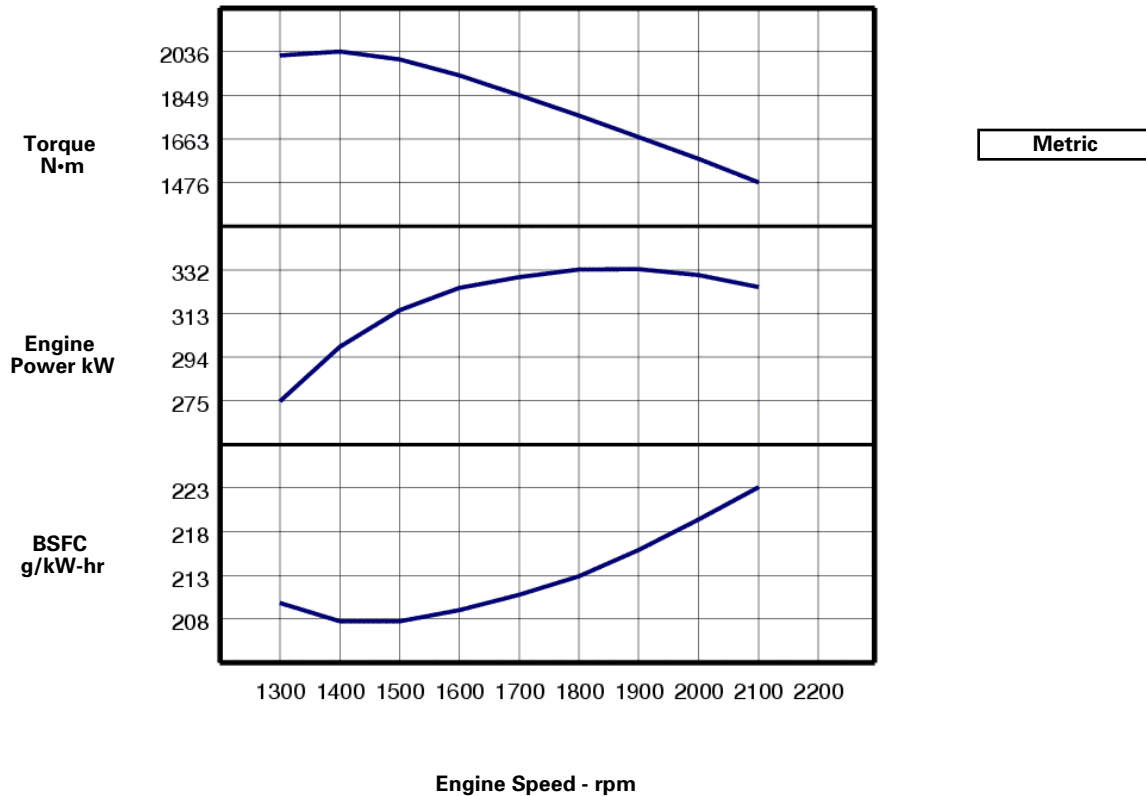
Paint, Caterpillar Yellow
Vibration damper and guard
Lifting eyes



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PERFORMANCE CURVES

IND - D - DM2163-01



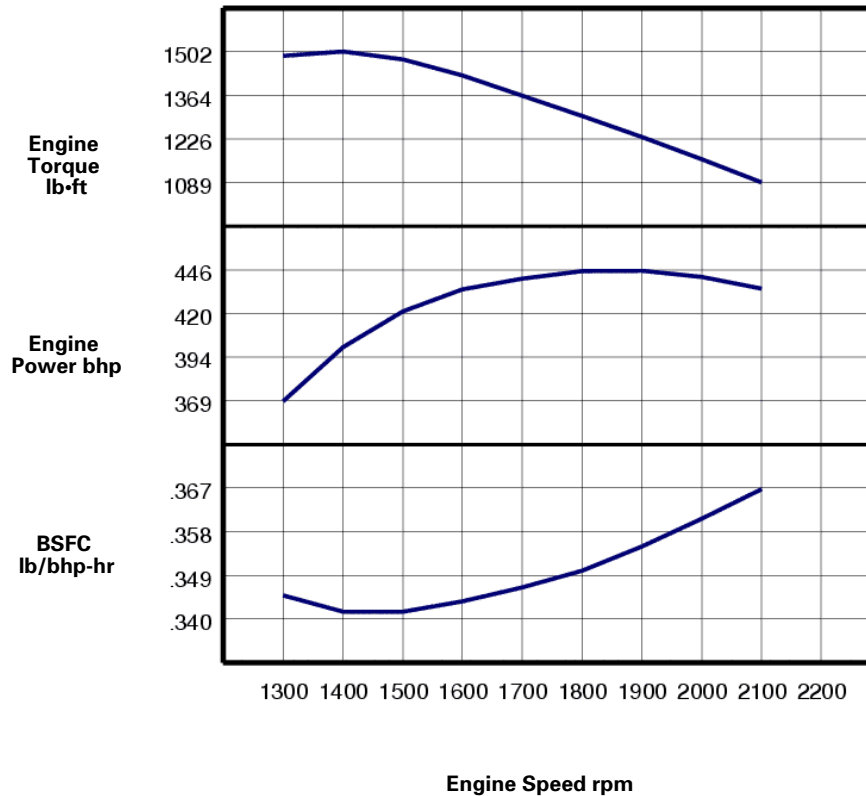
Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2100	325	1476	223.1	86.3
2000	330	1575	219.4	86.1
1900	332	1671	215.9	85.2
1800	332	1762	212.9	84.0
1700	329	1848	210.8	82.5
1600	324	1935	209	80.5
1500	314	2002	207.7	77.6
1400	299	2036	207.7	73.7
1300	275	2018	209.8	68.7



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PERFORMANCE CURVES

IND - D - DM2163-01



English

Engine Speed rpm	Engine Power bhp	Engine Torque lb·ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	435	1089	.367	22.8
2000	442	1162	.361	22.7
1900	446	1232	.355	22.5
1800	445	1300	.350	22.2
1700	441	1363	.347	21.8
1600	435	1427	.344	21.3
1500	422	1477	.341	20.5
1400	400	1502	.341	19.5
1300	369	1488	.345	18.1



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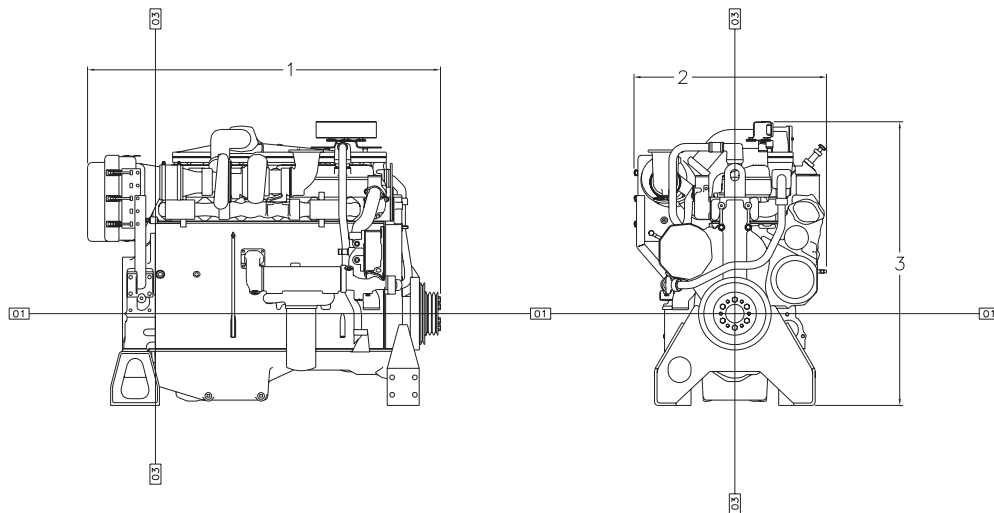
RATINGS AND CONDITIONS

IND - D For service where maximum power is required for periodic overloads. The maximum power and speed capability of the engine can be utilized for a maximum of 30 uninterrupted minutes followed by one hour at IND - C. Time at full load is not to exceed 10% of the duty cycle. Typical service examples are: offshore cranes, runway snow blowers, water well drills, portable air compressors, and fire pump certification power.

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: DM2163-01

Feature Code: 406DI03 Arr. Number: 1247634

Materials and specifications are subject to change without notice.

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