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.
STANDARD ENGINE EQUIPMENT
3406 C
Industrial Engine
Non-Certified
298 bkW/400 bhp @ 1800 rpm

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
3406 C
Industrial Engine
Non-Certified
298 bkW/400 bhp @ 1800 rpm

PERFORMANCE CURVES

IND - C (Intermittent) - DM2160-02

<table>
<thead>
<tr>
<th>Engine Speed rpm</th>
<th>Engine Power kW</th>
<th>Torque N-m</th>
<th>BSFC g/kW-hr</th>
<th>Fuel Rate L/hr</th>
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<td>1581</td>
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## IND - C (Intermittent) - DM2160-02

### Performance Curves

<table>
<thead>
<tr>
<th>Engine Speed (rpm)</th>
<th>Engine Power (bhp)</th>
<th>Engine Torque (lb•ft)</th>
<th>BSFC (lb/bhp-hr)</th>
<th>Fuel Rate (gal/hr)</th>
</tr>
</thead>
<tbody>
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<td>16.1</td>
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</table>
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 ISO 2288 and 9249 and 1585, EEC 80/1269 and DIN 70020 standard reference conditions.

<table>
<thead>
<tr>
<th>Engine Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Length</td>
</tr>
<tr>
<td>(2) Width</td>
</tr>
<tr>
<td>(3) Height</td>
</tr>
</tbody>
</table>

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