

Image shown may not reflect actual engine

## CATERPILLAR ENGINE SPECIFICATIONS

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### I-6, 4-Stroke-Cycle Diesel

Bore.....	110.0 mm (4.33 in)
Stroke.....	127.0 mm (5.0 in)
Displacement.....	7.2 L (442 in <sup>3</sup> )
Aspiration.....	Turbocharged ATAAC
Compression Ratio.....	17:1
Rotation (from flywheel end).....	Counterclockwise
Lube Oil System (refill).....	28 L (7.4 U.S. gal)
Weight, Net Dry (approximate kg, lb).....	588 kg (1296 lbs)

## FEATURES

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### Emissions

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

### Worldwide Supplier Capability

Caterpillar

- Casts engine blocks and heads
- 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](http://www.cat-industrial.com).

**STANDARD ENGINE EQUIPMENT**

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**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 Electronic Control Unit (ECU)

**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**

HEUI™ injection  
Fuel filter, secondary (2 micron high performance)  
Fuel transfer pump  
Fuel priming pump  
ACERT™ Technology

**Lube System**

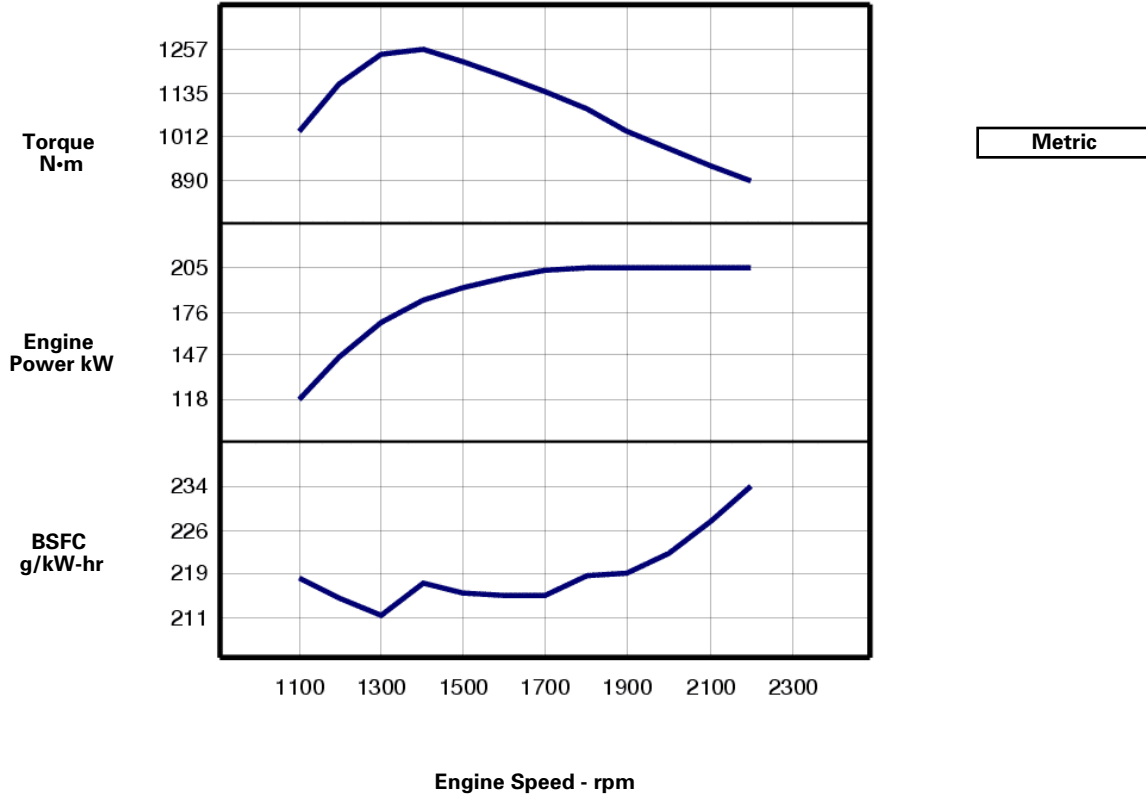
Crankcase breather  
Oil cooler  
Oil filler  
Oil filter  
Oil pan front sump  
Oil dipstick  
Oil pump (gear driven)

**General**

Paint, Caterpillar Yellow  
Vibration damper  
Lifting eyes

### PERFORMANCE CURVES

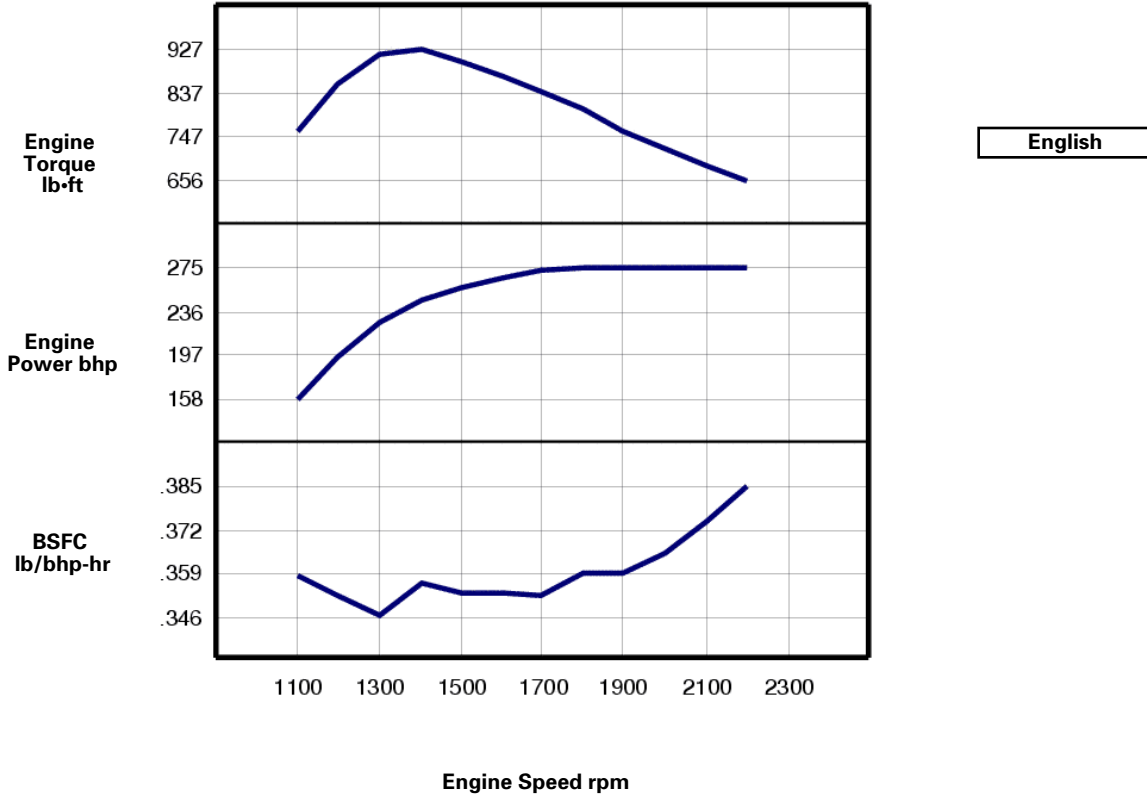
#### IND - C (Intermittent) - DM9222-01



Engine Speed rpm	Engine Power kW	Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
2200	205	890	234.1	57.2
2100	205	932	227.9	55.7
2000	205	979	222.1	54.3
1900	205	1030	218.5	53.4
1800	205	1088	218.3	53.3
1700	203	1140	214.5	51.9
1600	198	1182	214.8	50.7
1500	192	1222	215	49.2
1400	184	1257	216.8	47.6
1300	169	1241	211	42.5
1200	146	1162	214.4	37.3
1100	118	1024	218	30.7

### PERFORMANCE CURVES

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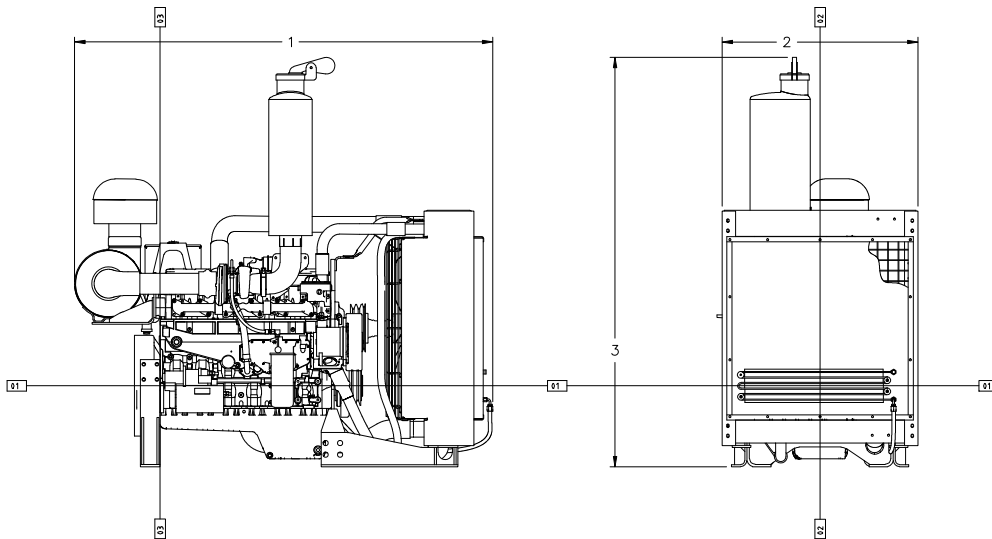
Engine Speed rpm	Engine Power bhp	Engine Torque lb-ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2200	275	656	.385	15.1
2100	275	687	.375	14.7
2000	275	722	.365	14.3
1900	275	760	.359	14.1
1800	275	802	.359	14.1
1700	272	841	.353	13.7
1600	266	872	.353	13.4
1500	257	901	.353	13.0
1400	247	927	.356	12.6
1300	227	915	.347	11.2
1200	196	857	.352	9.9
1100	158	755	.358	8.1

## RATINGS AND CONDITIONS

**IND - C (Intermittent)** Intermittent service where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Not to be used for irrigation applications. Refer to IND-A and IND-B ratings for irrigation and pump applications.

**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	2029.5 mm (79.9 in)
(2) Width	974.8 mm (38.38 in)
(3) Height	1986.3 mm (78.2 in)

Note: Do not use for installation design. See general dimension drawings for detail (Drawing # 3380381).

Performance Number: DM9222-01

Feature Code: C07DI06 Arr. Number: 2903976

Materials and specifications are subject to change without notice.

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