1492 bkW/2000 bhp @ 1800 rpm

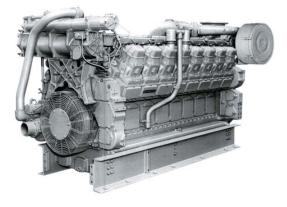


Image shown may not reflect actual engine

FEATURES

EMISSIONS

Non-certified rating.

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 9001:2000 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 For all your industrial power requirements, visit

CAT® ENGINE SPECIFICATIONS

V-16, 4-Stroke-Cycle Diesel

	Turbocharged / Aftercooled
Capacity for Liquids	d) Counterclockwise
	233.0 L (61.6 gal)
	401.3 L (106.0 gal)
Engine Weight, Net Dry (ap Ib)	proximate)7,484 kg (16,499

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

www.cat-industrial.com.



STANDARD ENGINE EQUIPMENT

Air Inlet System

Aftercooler core, corrosion resistant coated (air side) Instrument Panel, RH Air cleaner, regular duty with service indicators Engine oil pressure Turbochargers, rear mounted Fuel pressure gauge

Control System

Governor, RH, 3161 with self contained synthetic oil sump. Air-fuel ratio control, mechanical speed control, without torque control. Governor control, positive locking

Cooling System

Thermostats and housing for conventional core radiator Jacket water pump, gear driven, centrifugal

Exhaust System

Exhaust manifold, dry

Flywheels and Flywheel Housings

Flywheel , SAE No. 00, 183 teeth Flywheel housing, SAE No. 00

Fuel System

Fuel filter, with service indicators, cartridge type with RH service Fuel transfer pump

3516 Industrial Engine

1492 bkW/2000 bhp @ 1800 rpm

Instrumentation

nstrument Panel, RH Engine oil pressure gauge Fuel pressure gauge Oil filter differential gauge Jacket water temperature gauge Service meter, electric Tachometer

Lube System

Crankcase breather, top mounted Oil cooler Oil filler and dipstick, RH Oil pump Oil filter, cartridge type with RH service Shallow oil pan

Mounting System

Rails, mounting, engine length, 254 mm (10 in), industrial-type, C-channel.

Power Take-Offs

Accessory drive, upper RH Front housing, single sided

Protection System

Junction box Manual shutoff, RH Safety shutoff protection, energized to shutdown Low oil pressure, low idle 69 kPa (10 psi); high idle 207 kPa (30 psi) Water temperature Overspeed 3161 governor solenoid energized to shutdown

Starting System

Starting switch

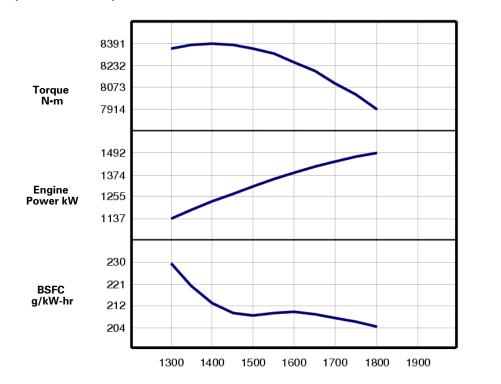
General

Paint, Caterpillar Yellow, Vibration damper and guard, Lifting eyes



PERFORMANCE CURVES

1492 bkW/2000 bhp @ 1800 rpm



IND - C (Intermittent) - TM3382-08

Engine Speed - rpm

Engine Speed rpm	Engine Power kW	Torque N∙m	BSFC g/kW-hr	Fuel Rate L/hr
1800	1492	7914	204	362.8
1750	1469	8017	206	360.8
1700	1443	8106	207.9	357.7
1650	1415	8188	209.4	353.3
1600	1384	8259	210	346.3
1550	1350	8315	209.5	336.7
1500	1313	8358	208.9	326.8
1450	1273	8381	209.9	318.5
1400	1230	8391	213.8	313.5
1350	1185	8381	220.5	311.2
1300	1137	8353	229.5	311.1

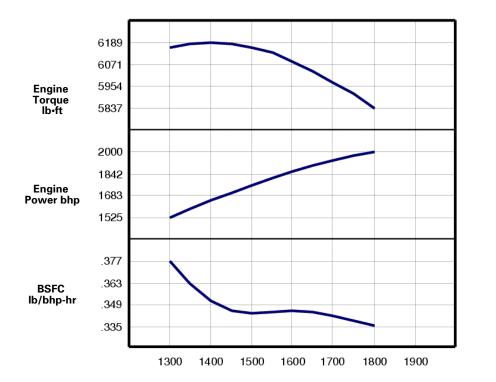
Metric



English

PERFORMANCE CURVES

1492 bkW/2000 bhp @ 1800 rpm



IND - C (Intermittent) - TM3382-08

Engine Speed rpm

Engine Speed rpm	Engine Power bhp	Engine Torque lb•ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
1800	2000	5837	.335	95.8
1750	1970	5913	.339	95.3
1700	1935	5979	.342	94.5
1650	1897	6039	.344	93.3
1600	1856	6092	.345	91.5
1550	1810	6133	.344	88.9
1500	1760	6165	.343	86.3
1450	1707	6181	.345	84.1
1400	1650	6189	.351	82.8
1350	1589	6181	.363	82.2
1300	1525	6161	.377	82.2



RATINGS AND CONDITIONS

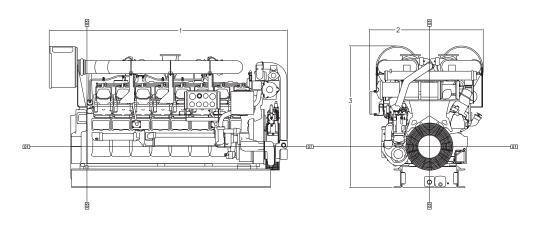
IND - C (Intermittent) Intermittent service where maximum power and/or speed are cyclic. The power and speed capability of the engine can be utilized for one uninterrupted hour followed by one hour of operation at or below IND - A. Time at full load is not to exceed 50% of the duty cycle. Typical service 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.

1492 bkW/2000 bhp @ 1800 rpm

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	3365.8 mm (132.51 in)		
(2) Width	1703.0 mm (67.05 in)		
(3) Height	1719.6 mm (67.7 in)		

Performance Number: TM3382-08

Feature Code: 516DI01 Arr. Number: 4W0284

Materials and specifications are subject to change without notice. 16304903

Note: Do not use for installation design. See general dimension drawings for detail (Drawing # 1729243).

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