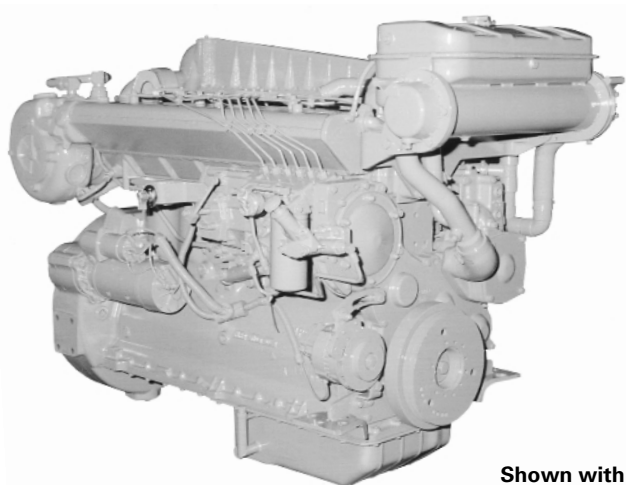




Marine Propulsion Engine 3306B

261 bkW (350 bhp) 355 mhp @ 2200 rpm



Shown with
Accessory Equipment

STANDARD EQUIPMENT

Air Inlet System

Dry, regular duty air cleaner

Cooling System

Gear driven centrifugal jacket water pump, engine oil cooler, expansion tank, thermostats and housing, transmission oil cooler

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 152 mm (6 in.)

Flywheel and Flywheel Housing

SAE No. 1 (156 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, fuel filter, flexible fuel lines

Instruments

Fuel pressure gauge, service meter, heavy-duty standard SAE rotation tachometer drive

Lube System

Top-mounted crankcase breather, oil filter, LH oil filler and oil level gauge, oil pan

Mounting System

Front support

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
Displacement 10.5 L (641 cu. in.)
Bore 121 mm (4.8 in.)
Stroke 152 mm (6.0 in.)
Aspiration Turbocharged-Aftercooled
Governor Hydra-mechanical
Engine Weight, Net Dry (approx) . . 1120.9 kg (2469 lb)
Capacity for Liquids
Cooling System 18.2 L (4.8 U.S. gal)
Lube Oil System (refill) 27.4 L (7.2 U.S. gal)
Oil Change Interval 250 hr
Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) Counterclockwise

ACCESSORY EQUIPMENT

Air Cleaner Rain Cap

Air Starting Motor

12V 51 Amp, 24V 35 Amp, 24V 60 Amp Alternator

Auxiliary Drive Pulley

Digital Tachometer

Double Wall Fuel Lines and Drain

Duplex Fuel Filter

Electric Overspeed Shutoff

Electric Starting Motor

Engine-Mounted Instrument Panel

Ether Starting Air

Exhaust Elbow, Pipe, Rain Cap, Flexible Fittings

Front Enclosed Clutch

Fuel Ratio Control

Hydraulic Pump Drive

Magnetic Pickup

Manual Shutoff Lever

Manual Sump Pump

Pilot House Instrument Panel

Primary Fuel Filter/Water Separator

Remote-Mounted Pilot House Controls

Remote Positive Locking Governor Control

RH Oil Level Gauge

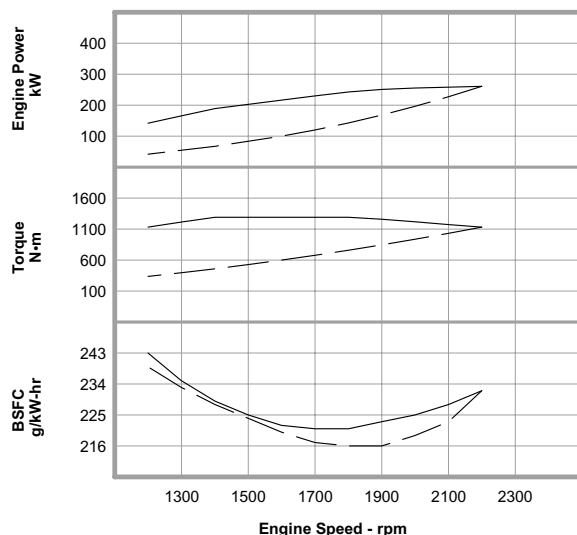
Shutoff Solenoid — ETR

Spare Parts Kit

PERFORMANCE CURVES

E Rating — DM6057-00

IMO Compliant



Metric

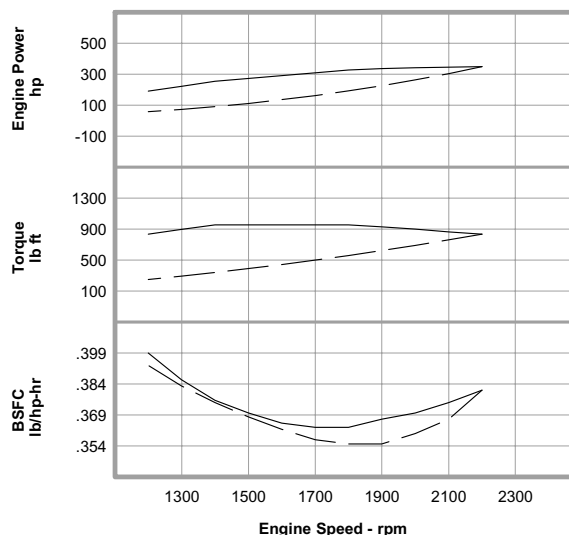
Maximum Power —
Prop Demand - -

261 kW

Performance Data

	Engine Speed rpm	Engine Power kW	Engine Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
Maximum Power Data	2200	261	1133	232.0	72.1
	2100	258	1173	228.0	70.0
	2000	255	1218	225.0	68.3
	1900	251	1260	223.0	66.5
	1800	243	1291	221.0	64.2
	1700	230	1291	221.0	60.6
	1600	216	1292	222.0	57.3
	1500	203	1292	225.0	54.4
	1400	189	1291	229.0	51.6
	1300	165	1212	235.0	46.2
Prop Demand Data	1200	142	1133	243.0	41.3
	2200	261	1133	232.0	72.1
	2100	227	1032	223.0	60.3
	2000	196	936	219.0	51.1
	1900	168	845	216.0	43.4
	1800	143	758	216.0	36.8
	1700	120	676	217.0	31.2
	1600	100	599	220.0	26.3
	1500	83	527	224.0	22.1
	1400	67	459	228.0	18.3
	1300	54	396	233.0	14.9
	1200	42	337	239.0	12.1

Cubic prop demand curve with 3.0 exponent for displacement hulls only.



English

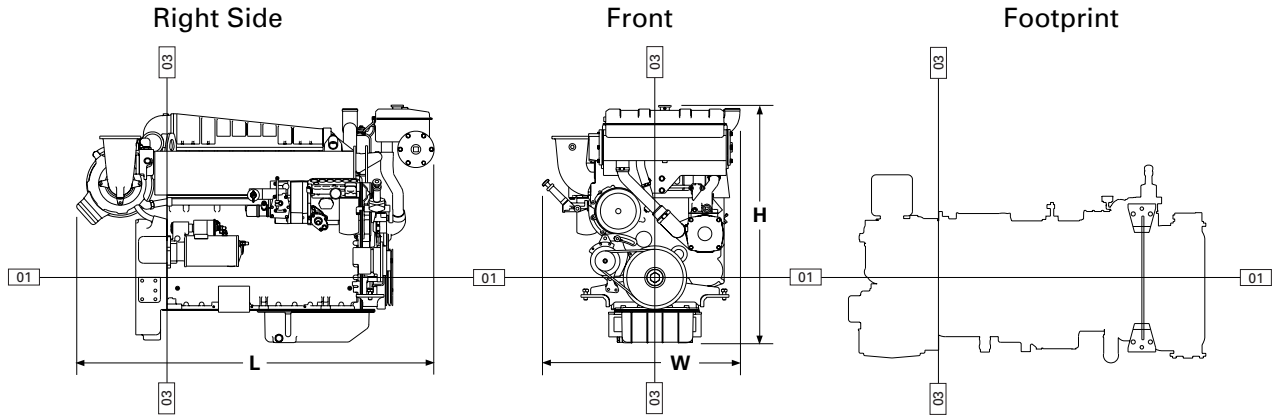
Maximum Power —
Prop Demand - -

350 hp

Performance Data

	Engine Speed rpm	Engine Power hp	Engine Torque lb ft	BSFC lb/hp-hr	Fuel Rate gph
Maximum Power Data	2200	350	836	.381	19.0
	2100	346	865	.375	18.5
	2000	342	898	.370	18.0
	1900	336	929	.367	17.6
	1800	326	952	.363	17.0
	1700	308	952	.363	16.0
	1600	290	953	.365	15.1
	1500	272	953	.370	14.4
	1400	254	952	.376	13.6
	1300	221	894	.386	12.2
Prop Demand Data	1200	191	836	.399	10.9
	2200	350	836	.381	19.0
	2100	304	761	.367	15.9
	2000	263	690	.360	13.5
	1900	225	623	.355	11.5
	1800	192	559	.355	9.7
	1700	161	499	.357	8.2
	1600	135	442	.362	6.9
	1500	111	389	.368	5.8
	1400	90	339	.375	4.8
	1300	72	292	.383	3.9
	1200	57	249	.393	3.2

Power produced at the flywheel will be within standard tolerances up to 50°C (122°F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52°C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.



DIMENSIONS*

	mm	in.
Overall Length	1719.2	67.7
Length from rear face of block to front of engine	1285.0	50.6
Length from rear face of block to back of flywheel housing	149.8	5.9
Overall Height	1141.0	44.9
Height from crankshaft centerline to top of engine	827.7	32.6
Height from crankshaft centerline to bottom of oil pan	313.3	12.3
Overall Width	951.1	37.4
Width from crankshaft centerline to port side (left side)	372.0	14.7
Width from crankshaft centerline to starboard side (right side)	542.8	21.4
Front		
Customer mounting hole diameter	19.8	0.8
Width from crankshaft centerline to mounting holes	307.8	12.1
Length from rear face of block to mounting holes	935.7	36.8
	1018.3	40.1

*Illustrations and dimensions from drawing:188-1628

RATING DEFINITIONS AND CONDITIONS

E Rating –

Typical Application . . . Planing hull vessels such as pleasure craft, harbor patrol, harbor master, and some fishing and pilot boats.

Typical Hours Per Year 250 to 1000
Time at Rated Speed Up to 8%
Load Factor Up to 30%
Typical Time at Full Load 1/2 out of 6 hours

Rated Speed 2200 rpm
Maximum Cruise Speed. 2050 rpm
Maximum Continuous Cruise Speed. . . . 1900 rpm

Engine Performance Parameters

Power. ±3%
Specific Fuel Consumption ±3%
Fuel Rate ±5%

Ratings are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25°C (77°F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29.61 in. Hg), 27°C (81°F), and 60% relative humidity.

Fuel rates are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/L (7.001 lb/U.S. gal).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.



3306B MARINE PROPULSION — 261 bkW (350 bhp)

Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions beyond Caterpillar's control.

TMI Reference No.: DM6057-00 (6-19-01)

Materials and specifications are subject to change without notice.

The International System of Units (SI) is used in this publication.

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