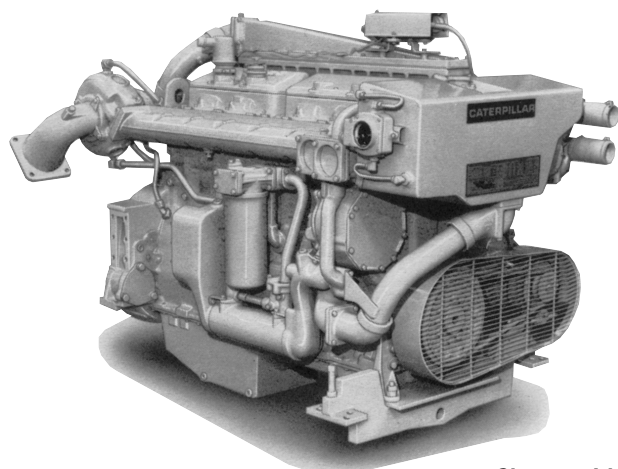


CATERPILLAR®



Shown with
Accessory Equipment

STANDARD EQUIPMENT

Air Inlet System

Corrosion resistant aftercooler core; dry, regular duty cleaner with service indicator

Cooling System

Gear driven self-priming auxiliary sea water pump with rotary rubber impeller (heat exchanger engines only), gear driven centrifugal jacket water pump, expansion tank, transmission oil cooler, engine oil cooler, thermostats and housing with 92°C (198°F) full open temperature

Exhaust System

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

Flywheel and Flywheel Housing

SAE No. 1 (113 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, LH fuel filter, fuel ratio control, flexible fuel lines

Instruments

Heavy-duty standard SAE rotation tachometer drive; LH instrument panel with service meter; oil pressure, water temperature, and fuel pressure gauges

Lube System

Crankcase breather, oil cooler, RH oil filter and oil level gauge, manual oil sump pump

Mounting System

Front support

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

Marine Propulsion Engine 3406C

298 bkW (400 bhp) 406 mhp @ 1800 rpm

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant

Displacement 14.6 L (893 cu. in.)

Bore 137 mm (5.4 in.)

Stroke 165 mm (6.5 in.)

Aspiration Turbocharged-Aftercooled

Governor Hydra-mechanical

Engine Weight, Net Dry (approx)

Heat Exchanger Cooled 1470 kg (3240 lb)

Keel Cooled 1435 kg (3165 lb)

Capacity for Liquids

Cooling System (Engine only) . . 36.2 L (9.4 U.S. gal)

Lube Oil System (refill) 34.1 L (9.0 U.S. gal)

Oil Change Interval 250 hr

Caterpillar DEO 10W30 or 15W40

Rotation (from flywheel end) Counterclockwise

ACCESSORY EQUIPMENT

Air Inlet Adapter, 152 mm (6 in.)

Air Starting Motor

Alarm Contactors

12V 51 Amp, 12V 105, 24V 35 Amp, 24V 60 Amp

Alternator

Auxiliary Drive Pulley

Auxiliary and Hydraulic Pump Drive

Cruise Kits

Digital Tachometer

Double Wall Fuel Lines

Dry Charge Coolant Conditioner

Duplex Fuel Filters

Electric Service Meter

Electric Shutoffs

Electric Starting Motor

Exhaust Elbow, Pipe, Flange, Flexible Fittings

Heat Exchanger

12-Hole Instrument Panel

4-Hole Instrument Panel

Magnetic Pickup

Pilot House Instrument Panel

Primary Fuel Filter/Water Separator

Remote-Mounted Pilot House Controls

Remote Positive Locking Governor Control

Spare Parts Kit

Solenoid Shutoffs

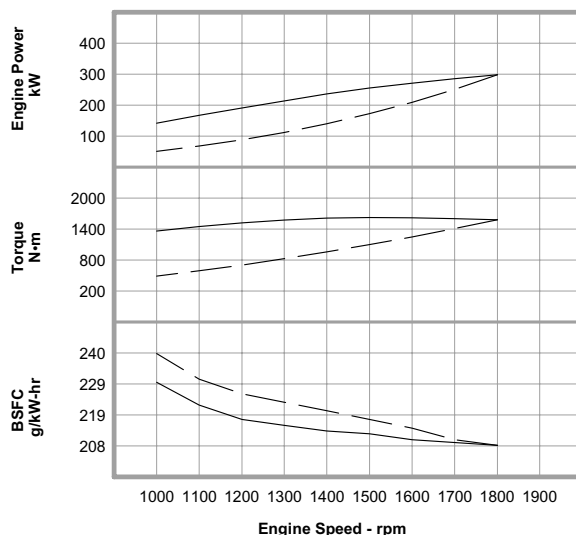
Starting Aid

Throttle Position Sensor

PERFORMANCE CURVES

B Rating — DM6097-00

IMO Compliant

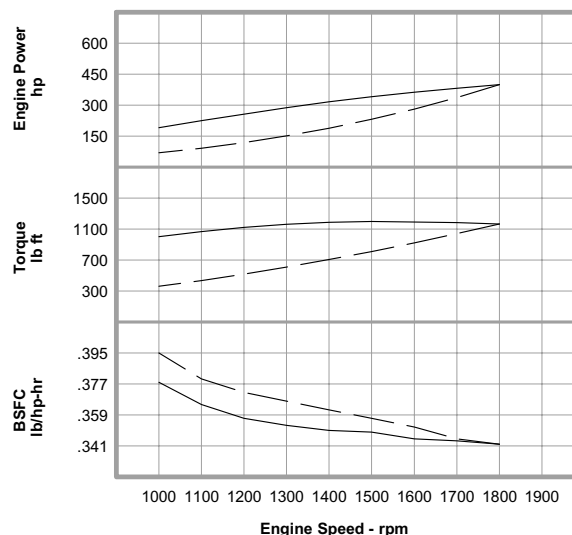


Metric **Maximum Power** **298 kW**
Prop Demand

Performance Data

	Engine Speed rpm	Engine Power kW	Engine Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
Maximum Power Data	1800	298	1581	208.0	73.9
	1700	285	1602	209.0	71.1
	1600	271	1616	210.0	67.9
	1500	255	1621	212.0	64.3
	1400	236	1610	213.0	59.9
	1300	214	1575	215.0	54.9
	1200	191	1521	217.0	49.5
	1100	167	1447	222.0	44.1
	1000	142	1360	230.0	39.0
Prop Demand Data	1800	298	1581	208.0	73.9
	1700	251	1410	210.0	62.9
	1600	209	1249	214.0	53.3
	1500	172	1098	217.0	44.6
	1400	140	956	220.0	36.7
	1300	112	825	223.0	29.8
	1200	88	703	226.0	23.8
	1100	68	590	231.0	18.8
	1000	51	488	240.0	14.6

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

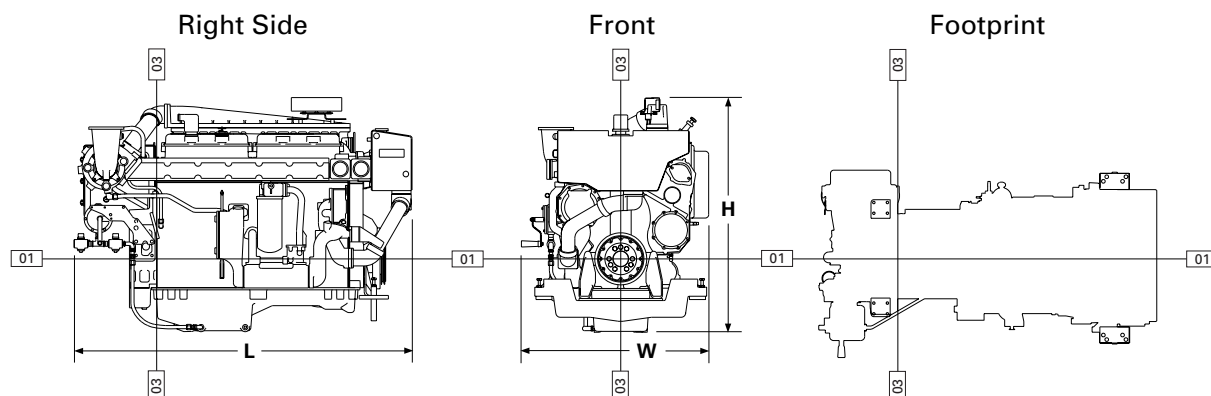


English **Maximum Power** **400 hp**
Prop Demand

Performance Data

	Engine Speed rpm	Engine Power hp	Engine Torque lb ft	BSFC lb/hp-hr	Fuel Rate gph
Maximum Power Data	1800	400	1166	.342	19.5
	1700	382	1182	.344	18.8
	1600	363	1192	.345	17.9
	1500	341	1196	.349	17.0
	1400	316	1187	.350	15.8
	1300	288	1162	.353	14.5
	1200	256	1122	.357	13.1
	1100	224	1067	.365	11.6
	1000	191	1003	.378	10.3
Prop Demand Data	1800	400	1166	.342	19.5
	1700	337	1040	.345	16.6
	1600	281	921	.352	14.1
	1500	231	810	.357	11.8
	1400	188	705	.362	9.7
	1300	151	608	.367	7.9
	1200	118	518	.372	6.3
	1100	91	435	.380	5.0
	1000	69	360	.395	3.9

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	1901.2	74.9
Length from front to rear face of block	1435.3	56.5
Overall Height	1315.4	51.8
Height from crankshaft centerline to top of engine	903.2	35.6
Height from crankshaft centerline to bottom of oil pan	412.2	16.2
Overall Width	1052.6	41.4
Width from crankshaft centerline to port side (left side)	494.3	19.5
Width from crankshaft centerline to starboard side (right side)	558.3	22.0

	Front		Rear	
	mm	in.	mm	in.
Customer mounting hole diameter	20.5	0.8	15.9	5/8
Width from crankshaft centerline to mounting holes	431.8	17.0	252.4	9.9
	457.2	18.0	312.8	12.3
Length from rear face of block to mounting holes	1156.1	44.8	57.9	2.3
	1175.1	46.3	134.1	5.3
	1264.1	49.8		
	1283.1	50.5		

*Illustrations and dimensions from drawing: 180-6365.

RATING DEFINITIONS AND CONDITIONS**B Rating –**

Typical Application . . . Vessels such as midwater trawlers, purse seiners, crew and supply boats, ferries, and towboats where locks, sandbars, and curves dictate frequent slowing, and engine load and speed are constant with some cycling.

Typical Hours Per Year 3000 to 5000
 Time at Rated Speed Up to 80%
 Load Factor 40 to 80%
 Typical Time at Full Load 10 out of 12 hours

Rated Speed 1800 rpm
 Maximum Cruise Speed 1750 rpm
 Maximum Continuous Cruise Speed 1700 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.



3406C MARINE PROPULSION — 298 bkW (400 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.: DM6097-00 (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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