

Image shown may not reflect actual engine.

### SPECIFICATIONS

#### V-12, 4-Stroke-Cycle-Diesel

Emissions	IMO compliant
Displacement	32.1 L (1958.8 cu. in.)
Rated Engine Speed	2300
Bore	145.0 mm (5.7 in.)
Stroke	162.0 mm (6.4 in.)
Aspiration	Turbocharged-Aftercooled
Governor	Electronic
Cooling System	Heat Exchanger
Weight, Net Dry (approx.)	2547 kg (5,615 lb)
Refill Capacity	
Cooling System	80 L (21.1 gal)
Lube Oil System	85 L (22.5 gal)
Oil Change Interval	200 hr
Caterpillar Diesel Engine Oil	10W30 or 15W40
Rotation (from flywheel end)	Counterclockwise
Flywheel and flywheel housing	SAE No. 1
Flywheel Teeth	113
Max. Exhaust Backpressure	10.0 kPa (40.2 in. water)
Fuel Consumption	298 L/hr (78.7 g/hr)

### STANDARD ENGINE EQUIPMENT

#### Air Inlet System

Corrosion resistant sea water aftercooler, air cleaner/fumes disposal system (closed)

#### Cooling System

Gear-driven centrifugal auxiliary sea water pump, gear-driven centrifugal jacket water pump, block heaters (one on each side), titanium plate heat exchanger with expansion tank, coolant recovery system, oil cooler, sea water aftercooler, engine oil cooler

#### Exhaust System

Watercooled exhaust manifold and turbocharger, round flanged outlet

#### Fuel System

Hydraulic Electronic Unit Injection (HEUI) fuel system, fuel priming pump, fuel transfer pump, fuel filter — RH or LH service

#### Instrumentation

Instrument panel with electronic service meter; start/stop switch; emergency stop button; maintenance due lamp; diagnostic lamp; warning lamp; 15A breakers, and starter motor magnetic switch; RH or LH 8-hole instrument panel with digital tachometer; oil pressure, oil temperature, water temperature, and fuel pressure gauges

#### Lube System

Crankcase breather, oil filter — RH or LH service, oil level gauge — RH or LH service, oil filler, shallow center sump oil pan

#### Mounting System

Front support — adjustable

#### Protection System

24 volt electronic

#### General

Vibration damper and guard, lifting eyes, customer wiring connector and service tool connector

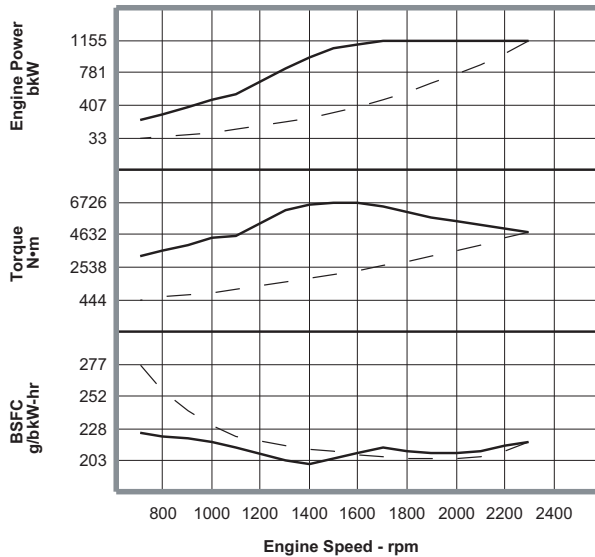
#### ISO Certification

Factory-designed systems built at Caterpillar  
ISO 9001:2000 certified facilities

### MARINE ENGINE PERFORMANCE

Preliminary

#### E Rating — DM9063-00

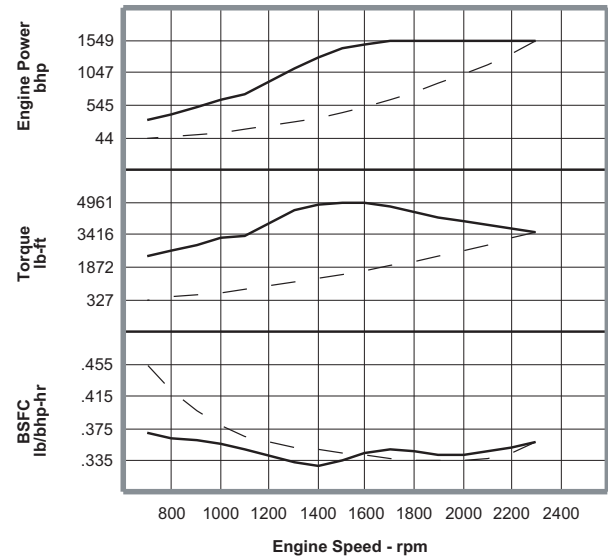


**Metric**      **Maximum Power** ——— **1156 bkW**  
**Prop Demand** - - - - -

#### Performance Data

	Engine Speed rpm	Engine Power bkW	Engine Torque N·m	BSFC g/bkW-hr	Fuel Rate L/hr
<b>Maximum Power Data</b>	2300	1156.0	4795	216.5	298.0
	2200	1156.0	5013	212.9	293.2
	2100	1156.0	5252	209.9	289.0
	1900	1156.0	5805	207.5	285.6
	1800	1156.0	6128	209.8	288.9
	1600	1116.0	6661	208.3	277.1
	1500	1056.6	6726	203.4	256.2
	1300	840.0	6171	202.2	202.5
	1000	460.3	4395	216.1	118.6
	800	298.3	3561	221.6	78.8
700	237.9	3246	225.2	63.9	
<b>Prop Demand Data</b>	2300	1156.0	4795	216.5	298.0
	2200	1010.8	4387	209.3	252.1
	2100	879.1	3998	204.9	214.8
	1900	651.1	3272	202.9	157.5
	1800	553.6	2937	203.3	134.2
	1600	388.8	2321	206.9	95.9
	1500	320.4	2040	209.1	79.8
	1300	208.6	1532	213.0	52.9
	1000	94.9	907	230.5	26.1
	800	48.6	580	256.8	14.9
700	32.6	444	276.8	10.7	

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



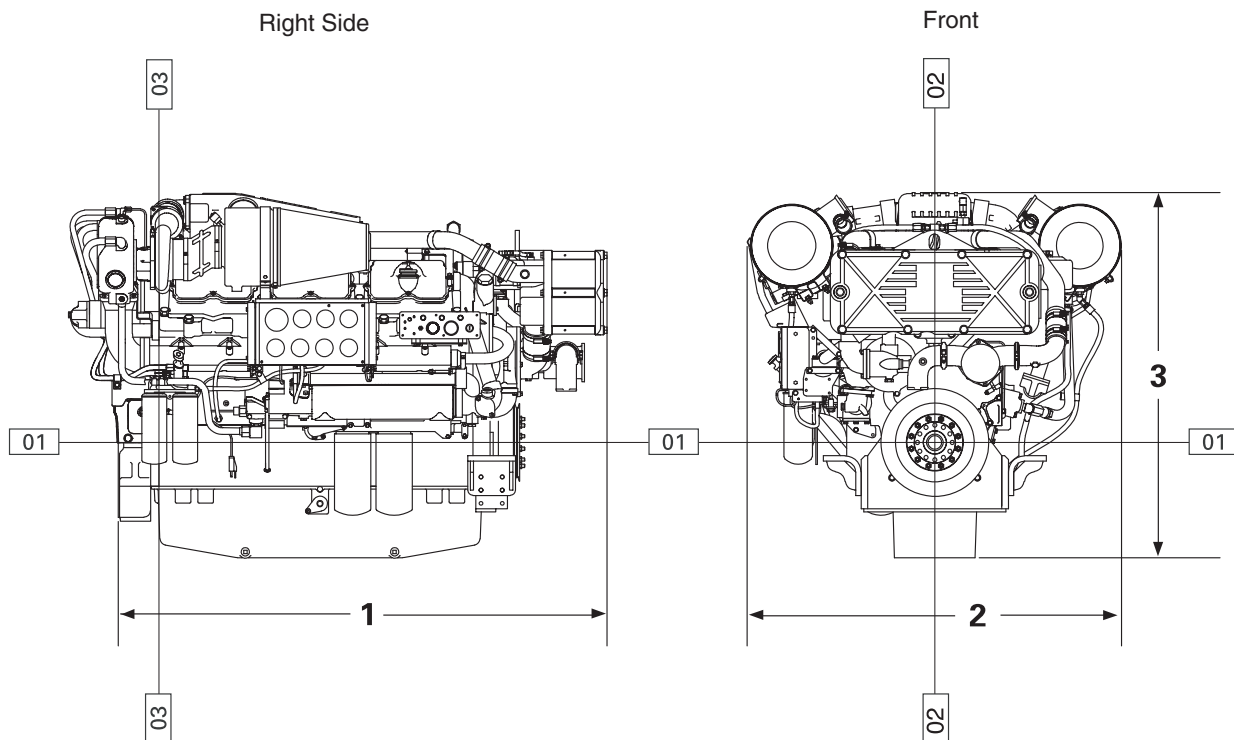
**English**      **Maximum Power** ——— **1550 bhp**  
**Prop Demand** - - - - -

#### Performance Data

	Engine Speed rpm	Engine Power bhp	Engine Torque lb·ft	BSFC lb/bhp-hr	Fuel Rate gph
<b>Maximum Power Data</b>	2300	1550.0	3536	.356	78.7
	2200	1550.0	3697	.350	77.5
	2100	1550.0	3873	.345	76.3
	1900	1550.0	4281	.341	75.4
	1800	1550.0	4520	.345	76.3
	1600	1496.6	4913	.342	73.2
	1500	1416.9	4961	.334	67.7
	1300	1126.5	4551	.332	53.5
	1000	617.3	3241	.355	31.3
	800	400.0	2626	.364	20.8
700	319.0	2394	.370	16.9	
<b>Prop Demand Data</b>	2300	1550.0	3536	.356	78.7
	2200	1355.5	3235	.344	66.6
	2100	1178.9	2949	.337	56.7
	1900	873.1	2413	.334	41.6
	1800	742.4	2166	.334	35.5
	1600	521.4	1712	.340	25.3
	1500	429.7	1505	.344	21.1
	1300	279.7	1130	.350	14.0
	1000	127.3	669	.379	6.9
	800	65.2	428	.422	3.9
700	43.7	327	.455	2.8	

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



Engine Dimensions		
(1) Length to Flywheel Housing	1845.3 mm	72.65 in.
(2) Width	1412.7 mm	55.62 in.
(3) Height	1378.3 mm	54.26 in.
Weight, Net Dry (approx)	2547 kg	5,615 lb

Note: Do not use for installation design. See general dimension drawings for detail (Drawing #2455955).

**RATING DEFINITIONS AND CONDITIONS**

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**E Rating (High Performance)**

% Load Factor: up to 30

% Time at Rated RPM: up to 8

Typical Time at Full Load: 1/2 hour out of 6

Typical Hour/Year: 250 to 1000

Typical Applications: For vessels operating at rated load and rated speed up to 8% of the time (up to 30% load factor). Typical applications could include but are not limited to vessels such as pleasure craft, harbor patrol boats, harbor master boats, some fishing or patrol boats. Typical operation ranges from 250 to 1000 hours per year.

**Power** at declared engine speed is in accordance with ISO3046-1:2002E. Caterpillar maintains ISO9001:1994/QS-9000 approved engine test facilities to assure accurate calibration of test equipment. Electronically controlled engines are set at the factory at the advertised power corrected to standard ambient conditions. The published fuel consumption rates are in accordance with ISO3046-1:2002E.

**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.

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.

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.

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