



Image shown may not reflect
actual Engine

SPECIFICATIONS

V-12, 4-Stroke-Cycle-Diesel

Emissions.....	IMO/EPA Tier 1
Displacement.....	32.1 L (1958.8 cu. in.)
Rated Engine Speed.....	2300
Bore.....	145.0 mm (5.71 in)
Stroke.....	162.0 mm (6.38 in)
Aspiration.....	Turbocharged-Aftercooled
Governor.....	Electronic
Cooling System.....	Heat Exchanger
Weight, Net Dry (approx).....	2,942 kg (6,486 lb)
Refill Capacity	
Cooling System.....	80 L (21.1 gal)
Lube Oil System.....	76 L (20.1 gal)
Oil Change Interval.....	200 hr
Caterpillar Diesel Engine Oil 10W30 or 15W40	
Rotation (from flywheel end).....	CCW
Flywheel and Flywheel Housing.....	SAE No. 0
Flywheel Teeth.....	113
Maximum Exhaust Backpressure	

STANDARD ENGINE EQUIPMENT

Air Inlet System

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

Control System

Electronic governor, Mechanically Actuated Electronic Unit Injection (MEUI) fuel system, A4 Electronic Control Unit (ECU)

Cooling System

Gear-driven centrifugal auxiliary sea water pump, gear-driven centrifugal jacket water pump, titanium plate heat exchanger with expansion tank, coolant recovery system, engine oil cooler

Exhaust System

Watercooled exhaust manifold and turbocharger, round flanged outlet

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 filler - RH or LH service, dipstick - RH or LH service, shallow center sump oil pan

Mounting System

Front support adjustable

Protection System

24 volt electronic

General

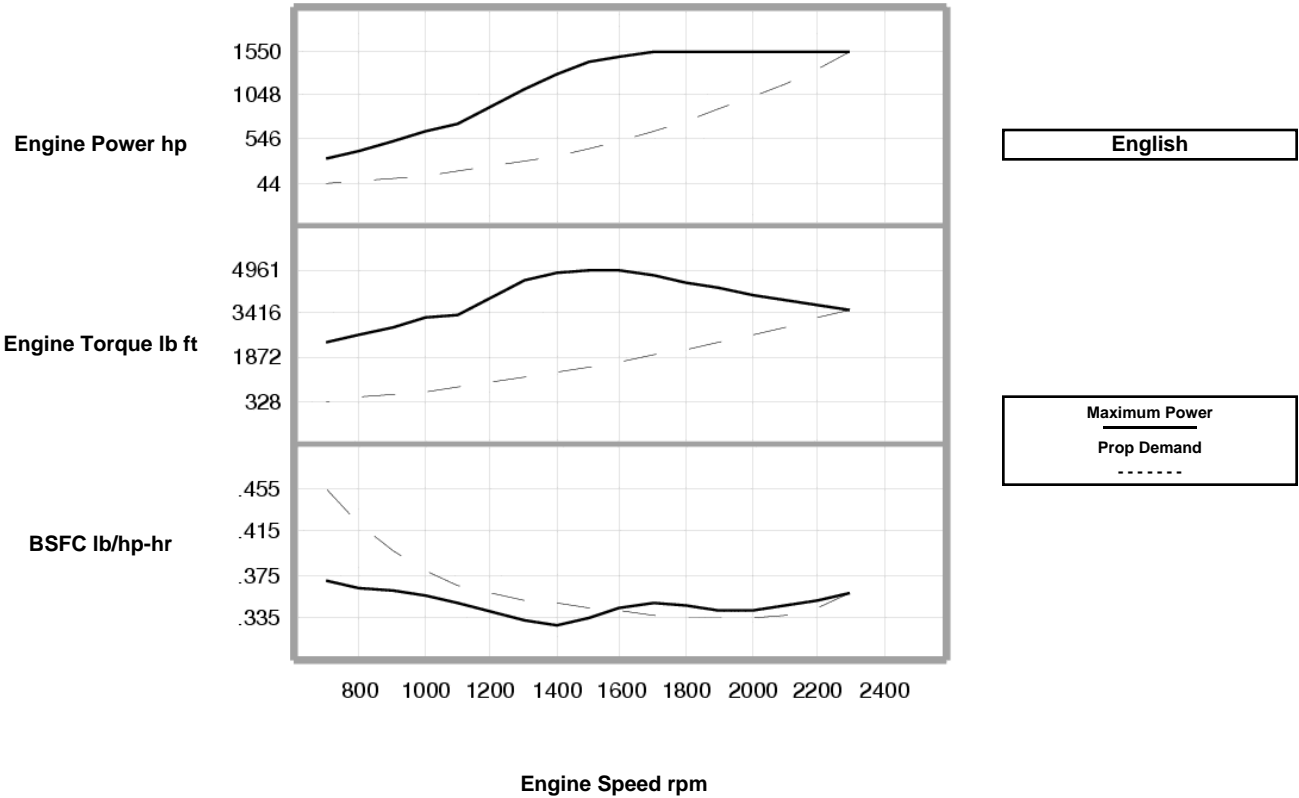
Vibration damper and guard, lifting eyes, RH or LH service options, literature, variable engine wiring

ISO Certification

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

PERFORMANCE CURVES

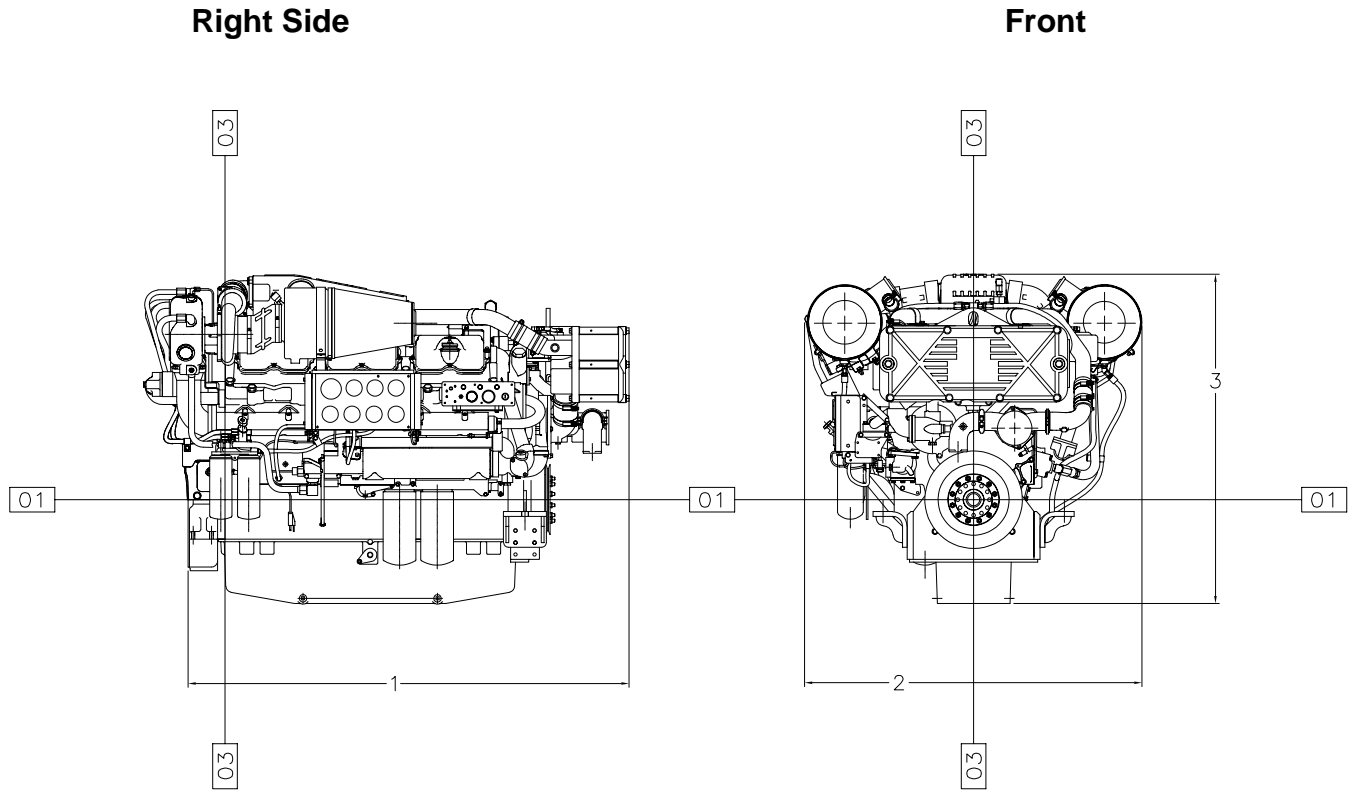
E-RATING - DM9063-00



Maximum Power Data					Prop Demand Data				
Engine Speed rpm	Engine Power hp	Engine Torque lb ft	BSFC lb/hp-hr	Fuel Rate gph	Engine Speed rpm	Engine Power hp	Engine Torque lb ft	BSFC lb/hp-hr	Fuel Rate gph
2300	1550	3540	.356	78.8	2300	1550	3540	.356	78.8
2200	1550	3701	.350	77.5	2200	1357	3239	.344	66.7
2100	1550	3877	.345	76.4	2100	1180	2951	.337	56.8
2000	1550	4071	.341	75.6	2000	1019	2677	.334	48.7
1900	1550	4285	.341	75.5	1900	874	2416	.334	41.6
1800	1550	4523	.345	76.4	1800	743	2168	.334	35.5
1700	1539	4754	.348	76.5	1700	626	1934	.337	30.1
1600	1497	4913	.342	73.2	1600	522	1713	.340	25.4
1500	1417	4961	.334	67.7	1500	430	1505	.344	21.1
1400	1294	4854	.328	60.7	1400	350	1311	.347	17.3
1300	1126	4551	.332	53.5	1300	280	1131	.350	14.0
1100	704	3362	.348	35.0	1100	170	810	.365	8.8
1000	617	3242	.355	31.3	1000	127	669	.379	6.9
900	506	2952	.360	26.0	900	93	542	.397	5.3
800	400	2626	.364	20.8	800	65	429	.422	3.9
700	319	2394	.370	16.9	700	44	328	.455	2.8

NOTE: Prop demand data is a cubic prop demand curve with 3.0 exponent for displacement hulls only.

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)	2942 kg	6,486 lb

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

RATING DEFINITIONS AND CONDITIONS

E Rating (High Performance) -

% Load Factor: up to 30

% Time at Rated RPM: up to 8

Typical Time at Full Load: 1/2 hours 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 manufacturer's 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 49° C (120° 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.

Performance No.: DM9063-00

Feature Code: C32DM08

U.S. Sourced

11960507

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Materials and specifications are subject to change without notice.

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

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