C9 ACERT™

MARINE PROPULSION ENGINE

575 mhp (567 bhp) 423 bkW



Image shown may not reflect actual engine

STANDARD ENGINE EQUIPMENT

- HEUI fuel system with electronic governor (A4 ECU)
- Sea water aftercooler core
- Air cleaner with fumes disposal (closed system)
- Tube bundle heat exchanger with expansion tank
- Thermostat and housing
- Watercooled exhaust manifold and turbocharger
- Crankcase breather
- Engine oil and transmission oil cooler
- Oil level gauge, oil filler, and oil pan drain (RH or LH service)
- Oil filter (front center service)
- Belt-driven centrifugal jacket water pump
- Gear-driven auxiliary sea water pump
- Fuel priming pump and transfer pump
- Fuel filter (RH or LH service)
- 12V, 110 amp/24V, 75 amp charging alternator and mounting
- 24V air inlet heater
- Electronic overspeed shutoff
- Torsional vibration damper and guard
- SAE J1939 data link
- Front support mounting system

SPECIFICATIONS

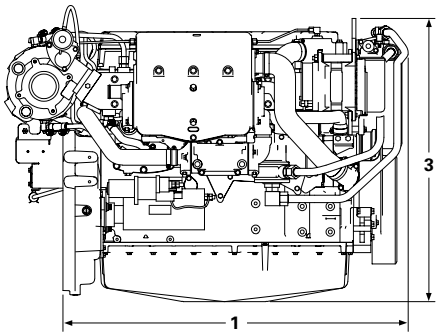
I-6, 4-Stroke-Cycle-Diesel

- EPA Tier 2 Recreational, EU Recreational, IMO compliant
- 8.82 L (538.23 cu. in.) displacement
- 2500 rpm rated engine speed
- 112 mm (4.41 in.) bore x 149 mm (5.87 in.) stroke
- Turbocharged-aftercooled aspiration
- Electronically governed
- Heat exchanger cooled
- Refill capacity
  - Cooling system: 47 L (12.4 gal.)
  - Lube Oil system: 24 L (6.3 gal.)
- SAE No. 1 flywheel and flywheel housing
- 113 flywheel teeth
- Counterclockwise rotation from flywheel end
- 250-hour oil change interval
- Cat® Diesel Engine Oil 10W30 or 15W40

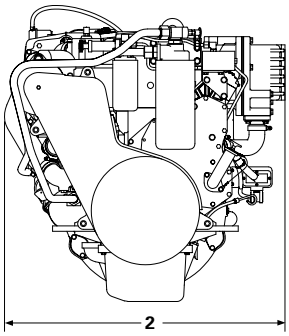


DIMENSIONS

Right Side



Front



ENGINE DIMENSIONS & WEIGHT		
(1) Length to Flywheel Housing	1198.7 mm	47.19 in.
(2) Width	960.7 mm	37.82 in.
(3) Height	982.8 mm	38.69 in.
Weight, Net Dry (approx)	946 kg	2,086 lb.

Note: Do not use these dimensions for installation design. See general dimension drawings for detail (Drawing #2736022). For complete information, please refer to Spec Sheet Wizard.

C9 ACERT™

MARINE PROPULSION ENGINE

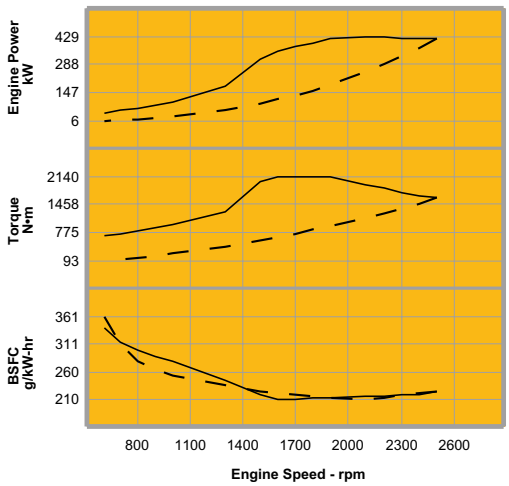
MARINE ENGINE PERFORMANCE

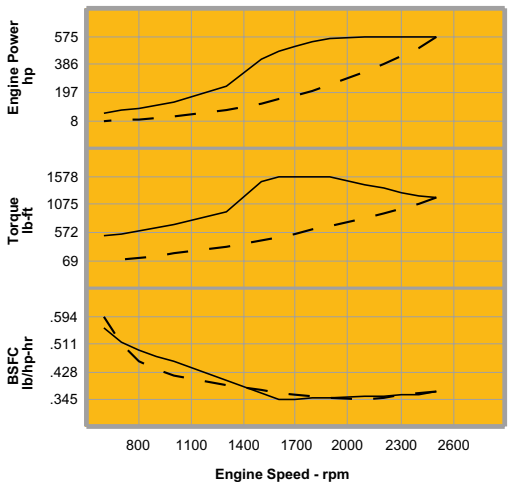
C9 TA ACERT

423 bkW (567 bhp) @ 2500 rpm

E Rating (High Performance) — DM7798-01

EPA T2R/EU RCD





Metric | Maximum Power — — Prop Demand | **423 kW**

Performance Data

	Engine Speed rpm	Engine Power kW	Engine Torque N•m	BSFC g/kW-hr	Fuel Rate L/hr
Maximum Power Data	2500	423.0	1616	221.9	111.9
	2400	423.0	1683	218.6	110.2
	2300	423.0	1756	216.1	108.9
	2100	428.9	1950	213.9	109.3
	1900	420.9	2115	212.2	106.5
	1700	380.9	2140	209.1	94.9
	1600	357.9	2136	209.2	89.2
	1300	175.9	1292	244.5	51.3
	900	83.0	880	290.0	28.7
	700	55.0	750	314.5	20.6
	600	43.0	684	339.2	17.4
Prop Demand Data	2500	423.0	1616	221.9	111.9
	2400	374.2	1489	219.8	98.1
	2300	329.4	1368	216.5	85.0
	2100	250.7	1140	209.9	62.7
	1900	185.7	933	211.2	46.7
	1700	133.0	747	217.6	34.5
	1600	110.9	662	221.0	29.2
	1300	59.5	437	233.4	16.6
	900	19.7	209	266.3	6.3
	700	9.3	127	310.5	3.4
	600	5.8	93	361.3	2.5

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

English | Maximum Power — — Prop Demand | **567 hp**

Performance Data

	Engine Speed rpm	Engine Power hp	Engine Torque lb-ft	BSFC lb/hp-hr	Fuel Rate gph
Maximum Power Data	2500	567.3	1192	.365	29.6
	2400	567.3	1241	.359	29.1
	2300	567.3	1295	.355	28.8
	2100	575.2	1438	.352	28.9
	1900	564.4	1560	.349	28.1
	1700	510.8	1578	.344	25.1
	1600	480.0	1575	.344	23.6
	1300	235.9	953	.402	13.6
	900	111.3	649	.477	7.6
	700	73.8	553	.517	5.4
	600	57.7	504	.558	4.6
Prop Demand Data	2500	567.3	1192	.365	29.6
	2400	501.8	1098	.361	25.9
	2300	441.7	1009	.356	22.5
	2100	336.2	841	.345	16.6
	1900	249.0	688	.347	12.3
	1700	178.4	551	.358	9.1
	1600	148.7	488	.363	7.7
	1300	79.8	322	.384	4.4
	900	26.4	154	.438	1.7
	700	12.5	94	.510	.9
	600	7.8	69	.594	.7

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.

© 2007 Caterpillar All Rights Reserved

CAT, CATERPILLAR, their respective logos, ACERT, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

U.S. Sourced
LEHM8927-01 (9-10)

©2010 Caterpillar
All rights reserved.
Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.