

C32 ACERT®

MARINE PROPULSION ENGINE

1825 mhp

(1800 bhp)

1342 bkW

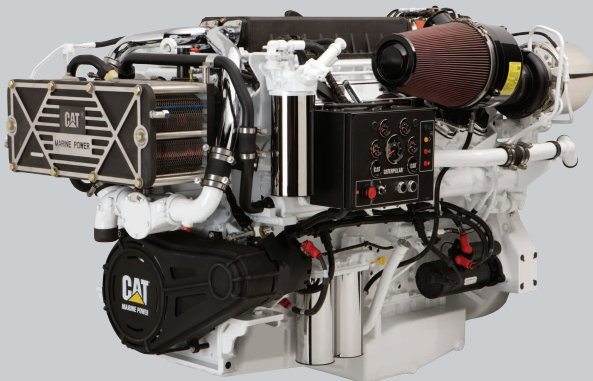


Image shown may not
reflect actual engine

CATERPILLAR®

STANDARD ENGINE EQUIPMENT

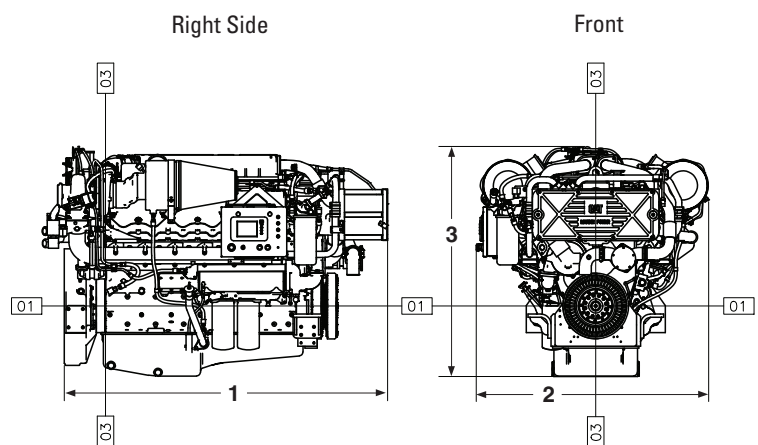
- Corrosion resistant sea water separate circuit aftercooler
- MEUI fuel system
- Adjustable front support
- Titanium plate heat exchanger with expansion tank
- Watercooled exhaust manifold and turbocharger
- Electronic governor
- A4 Electronic Control Unit
- Crankcase breather
- Oil filter, dipstick, and oil filler (RH or LH service)
- Shallow sump oil pan
- Gear driven centrifugal jacket water pump and seawater pump
- Fuel priming and transfer pump
- Vibration damper and guard
- Air cleaner/fumes disposal system
- Variable engine wiring

SPECIFICATIONS

V-12, 4-Stroke-Cycle-Diesel

- EPA Tier 2 Recreational/IMO compliant
- 32.2 liter displacement
- 2300 rpm rated engine speed
- 145 mm (5.71 in) bore x 162 mm (6.38 in) stroke
- Turbocharged and aftercooled aspiration
- Electronically governed
- Heat exchanger cooled
- Refill capacity
 - Cooling system: 79 L (20.9 gal)
 - Lube oil system: 85.2 L (22.5 gal)
- 24V electronic protection system
- SAE No. 0 flywheel and flywheel housing
- 136 flywheel teeth
- Counterclockwise rotation from flywheel end
- 250-hour oil change interval
- Caterpillar Diesel Engine Oil 10W30 or 15W40

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length to Flywheel Housing	2008.0 mm	79.05 in.
(2) Width	1443.5 mm	56.83 in.
(3) Height	1429.7 mm	56.29 in.
Weight, Net Dry (approx)	3152 kg	6,949 lb

Note: Do not use these dimensions for installation design. See general dimension drawings for detail (Drawing #2710384). For complete information, please refer to the Marine Spec Sheet LEHM8960.

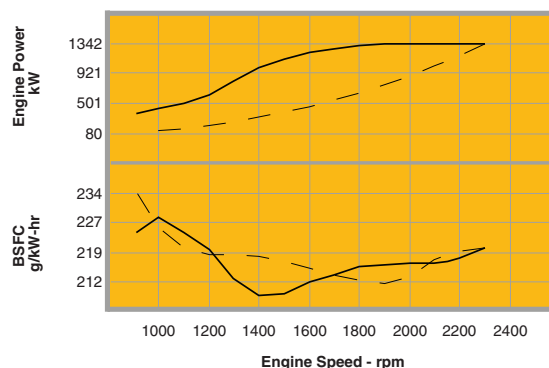
MARINE ENGINE PERFORMANCE

C32 DITA ACERT

1342 bkW (1800 bhp) @ 2300 rpm

E Rating (High Performance) — EM0030-00

EPA T2R/EU Stage IIIA



Metric

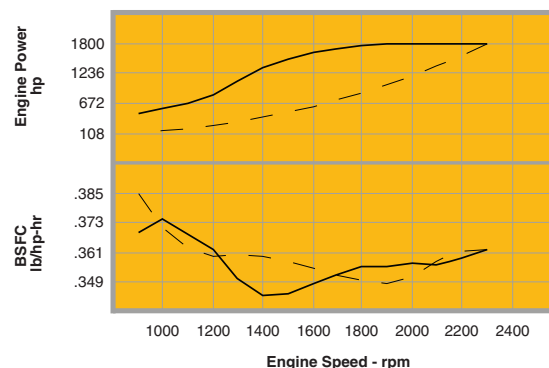
Maximum Power
Prop Demand

1342 kW

Performance Data

	Engine Speed rpm	Engine Power kW	BSFC g/kW-hr	Fuel Rate L/hr
Maximum Power Data	2300	1342.0	220.6	352.9
	2200	1342.0	218.2	349.0
	2150	1342.0	217.0	347.2
	2000	1342.0	216.6	346.6
	1900	1342.0	216.0	345.5
	1700	1269.0	213.8	323.4
	1600	1221.0	211.9	308.3
	1400	999.0	208.7	248.5
	1200	624.0	220.4	163.9
Prop Demand Data	1000	437.0	228.0	118.7
	900	346.0	224.5	92.6
	2300	1342.0	220.6	352.9
	2200	1174.5	219.9	307.9
	2150	1096.2	219.1	286.3
	2000	882.4	213.4	224.4
	1900	756.5	211.5	190.8
	1700	541.9	213.7	138.0
	1600	451.8	215.5	116.0
	1400	302.7	218.7	78.9
	1200	190.6	218.8	49.7
	1000	110.3	225.7	29.7
	900	80.4	234.2	22.4

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



English

Maximum Power
Prop Demand

1800 hp

Performance Data

	Engine Speed rpm	Engine Power hp	BSFC lb/hp-hr	Fuel Rate gph
Maximum Power Data	2300	1799.7	.363	93.2
	2200	1799.7	.359	92.2
	2150	1799.7	.357	91.7
	2000	1799.7	.356	91.6
	1900	1799.7	.355	91.3
	1700	1701.8	.351	85.4
	1600	1637.4	.348	81.4
	1400	1339.7	.343	65.6
	1200	836.8	.362	43.3
Prop Demand Data	1000	586.0	.375	31.4
	900	464.0	.369	24.5
	2300	1799.7	.363	93.2
	2200	1575.0	.362	81.3
	2150	1470.0	.360	75.6
	2000	1183.3	.351	59.3
	1900	1014.5	.348	50.4
	1700	726.7	.351	36.5
	1600	605.9	.354	30.6
	1400	405.9	.360	20.8
	1200	255.6	.360	13.1
	1000	147.9	.371	7.8
	900	107.8	.385	5.9

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.