



**C32**

**MARINE PROPULSION**

**1676 mhp  
(1652 bhp)  
1232 bkW**



Image shown may not reflect actual Engine

## SPECIFICATIONS

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

Emissions.....	IMO
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)	
Refill Capacity	
Cooling System.....	80 L (21.1 gal)
Lube Oil System.....	85 L (22.5 gal)
Oil Changer Interval.....	200 hr
Caterpillar Diesel Engine Oil 10W30 or 15W40	
Rotation (from flywheel end).....	CCW
Flywheel and Flywheel Housing.....	SAE No. 1
Flywheel Teeth.....	113
Maximum Exhaust Backpressure. 10.0 kPa (40.2 in. water)	

## 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

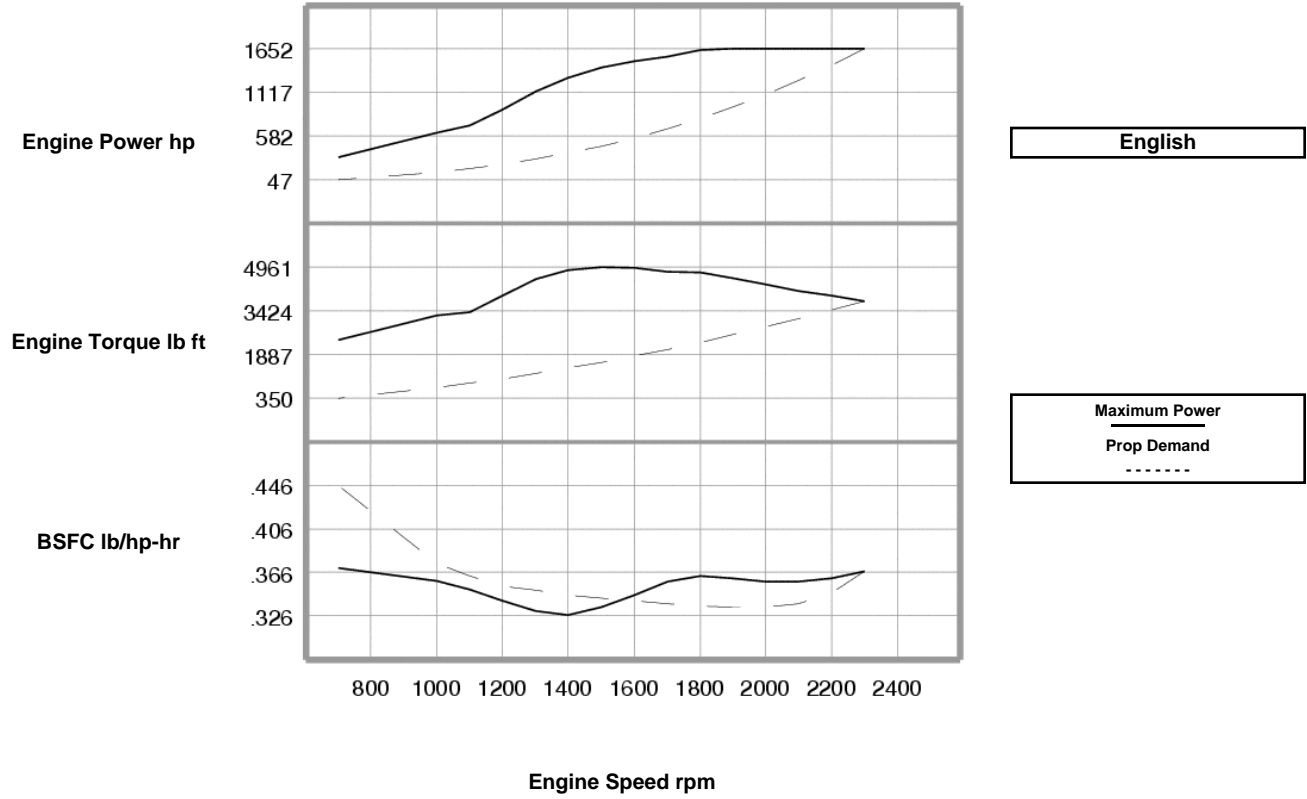
### General

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



**PERFORMANCE CURVES**

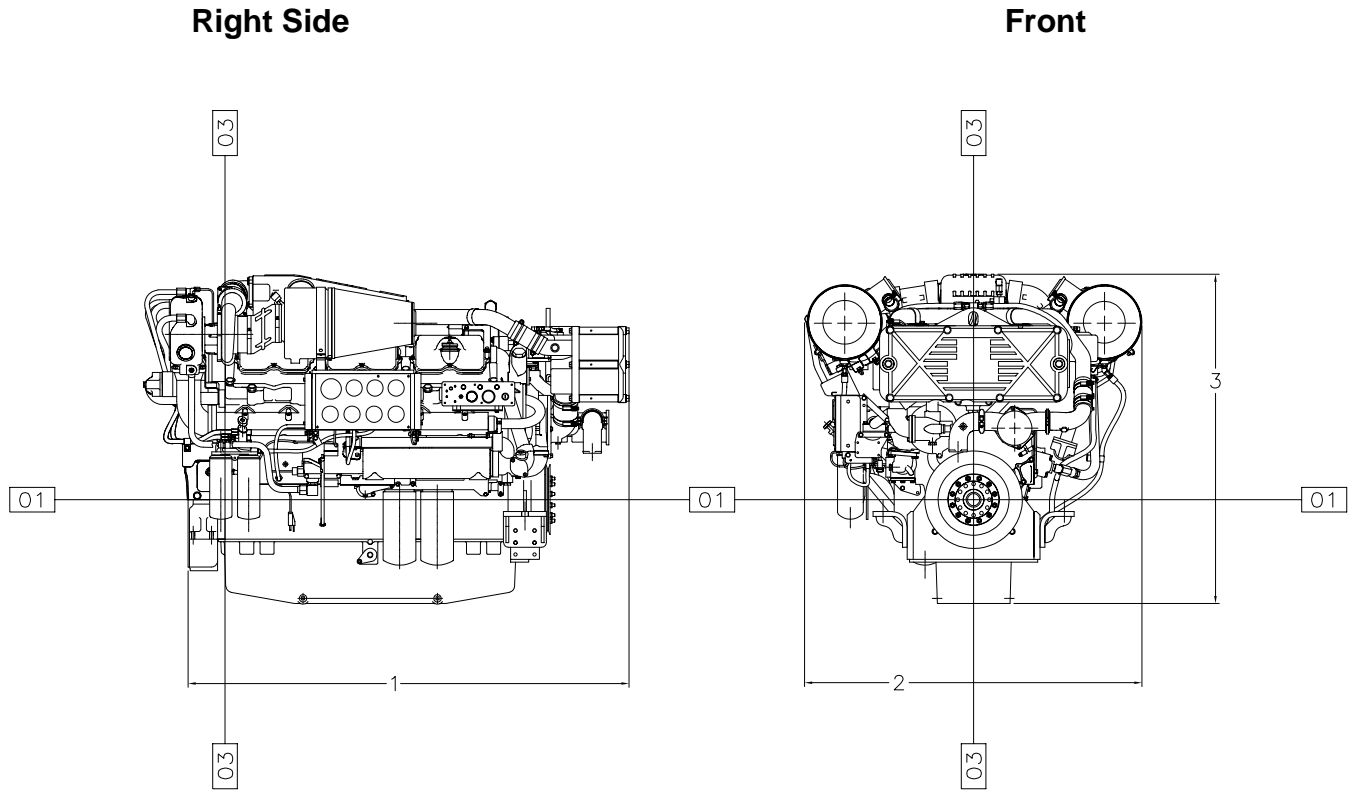
**E-RATING - DM7296-01**



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	1652	3773	.367	86.4	2300	1652	3773	.367	86.4
2200	1652	3944	.360	85.1	2200	1446	3452	.347	71.6
2100	1652	4132	.357	84.3	2100	1257	3145	.337	60.5
2000	1652	4338	.357	84.3	2000	1086	2853	.334	51.9
1900	1652	4567	.360	84.8	1900	931	2575	.334	44.5
1800	1634	4768	.362	84.3	1800	792	2311	.335	38.0
1700	1554	4802	.357	79.1	1700	667	2061	.337	32.2
1600	1499	4921	.345	74.0	1600	556	1825	.340	27.0
1500	1417	4961	.334	67.6	1500	458	1605	.342	22.4
1400	1294	4856	.327	60.5	1400	373	1398	.345	18.4
1300	1127	4552	.330	53.2	1300	298	1205	.349	14.8
1200	905	3963	.340	44.0	1200	235	1027	.353	11.8
1100	704	3363	.350	35.2	1100	181	863	.362	9.3
1000	617	3241	.358	31.6	1000	136	713	.375	7.3
700	318	2385	.370	16.8	700	47	350	.446	3.0

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)	0 kg	0 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 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 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.

Performance No.: DM7296-01

Feature Code: C32DM00

U.S. Sourced

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Materials and specifications are subject to change without notice.

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