

SDI/TDI 1.9

SDI/TDI® SERIES ENGINE

Engine Overview

- Continuous, reliable and comfortable power supply at a relatively low engine speeds
- Enhanced fuel economy delivered by the full-authority electronic engine control
- Peace Of Mind is delivered by automotive-like quality and CMD's global service network

Features

Fuel System: Bosch® Diesel direct injection distributor type pump; Naturally Aspirated

Electrical System: 12 Volt

Alternator: 90 A

Cooling System: Thermostatically controlled double circuit cooling system with heat exchangers, water cooled collective exhaust pipe, oil cooler, hydraulic oil cooler

Emissions: EPA Tier 2, IMO Tier II, and RCD certified

(SDI 1.9 60 is not EPA Tier 2 certified)

Power Ratings

Rating	HO	HO	HO	HO
Metric HP(KW)	40 (29)	50 (37)	60 (44)	75 (55)
Rated RPM	2600	3000	3600	3600
Max Torque ft-lbs	93	96	95	117
Max torque N-m	126	130	129	159
rpm @ max torque	2000	2000	2000	2000



Engine Specifications

Configuration	In-line 4-cylinder, 4-stroke diesel
Bore & Stroke	79.5 mm x 95.5 mm (3.12 in x 3.76 in)
Displacement	1.9 L (115.9 in ³)
Aspiration	Naturally Aspirated/Turbo Charged

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

Cummins MerCruiser Diesel
PEACE OF MIND IN AN UNFORGIVING ENVIRONMENT

1-800-DIESELS

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Fuel Consumption (Prop Curve)

RPM	SDI 1.9 40 gal/h (l/hr)	SDI 1.9 50 gal/h (l/hr)	SDI 1.9 60 gal/h (l/hr)	TDI 1.9 75 gal/h (l/hr)
1000	0.2 (0.7)	0.2 (0.6)	0.2 (0.7)	0.2 (0.8)
1500	0.6 (2.2)	0.4 (1.4)	0.3 (1.2)	0.4 (1.6)
2000	1.1 (4.2)	0.8 (3.0)	0.6 (2.3)	0.8 (3.0)
2500	2.0 (7.7)	1.5 (5.7)	1.1 (4.3)	1.5 (5.5)
2600	2.1 (7.8)	n/a	n/a	n/a
3000	n/a	2.8 (10.7)	1.9 (7.1)	2.4 (9.1)
3500	n/a	n/a	2.9 (11.0)	3.9 (14.8)
3600	n/a	n/a	3.3 (12.6)	4.4 (16.5)

For more details on fuel consumption specifics please contact CMD

Engine Dimensions

Length		Width		Height		Weight (Dry)*	
mm	in	mm	in	mm	in	kg	lb
692	27.2	614	24.2	710	28.0	198	436

*Weight is engine with heat exchanger system - average.
Overall width and height.

Available Accessories

Instrumentation: analog style gauges provide data on engine speed, oil pressure, coolant temp, battery voltage.

Ratings Definitions

High Output (HO): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Reduced power must be at or below 400 rpm of the maximum rated rpm. For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

Rating Conditions: Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

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Drive Options

Engine	Saildrive	Inboard	Sterndrive
SDI 1.9 40	X	X	0
SDI 1.9 50	X	X	0
SDI 1.9 60	X	X	0
TDI 1.9 75	X	X	0

X= AVAILABLE
0= NOT AVAILABLE



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