





## MERCURY® DIESEL 6.7L

L6 Common Rail, EPA Tier 3/RCD 2 Engine 480 mHP (353 kW) to 550 mHP (405 kW) Available Models: Bobtail, Inboard or Zeus° Pod package

The Mercury® Diesel 6.7L midrange engine, with its matched turbocharger design, delivers exceptional performance, acceleration and top speeds, and is the perfect match for recreational sport yachts. This powerful engine features an advanced engine control system that delivers low fuel consumption for affordable operating costs and extended travel range.

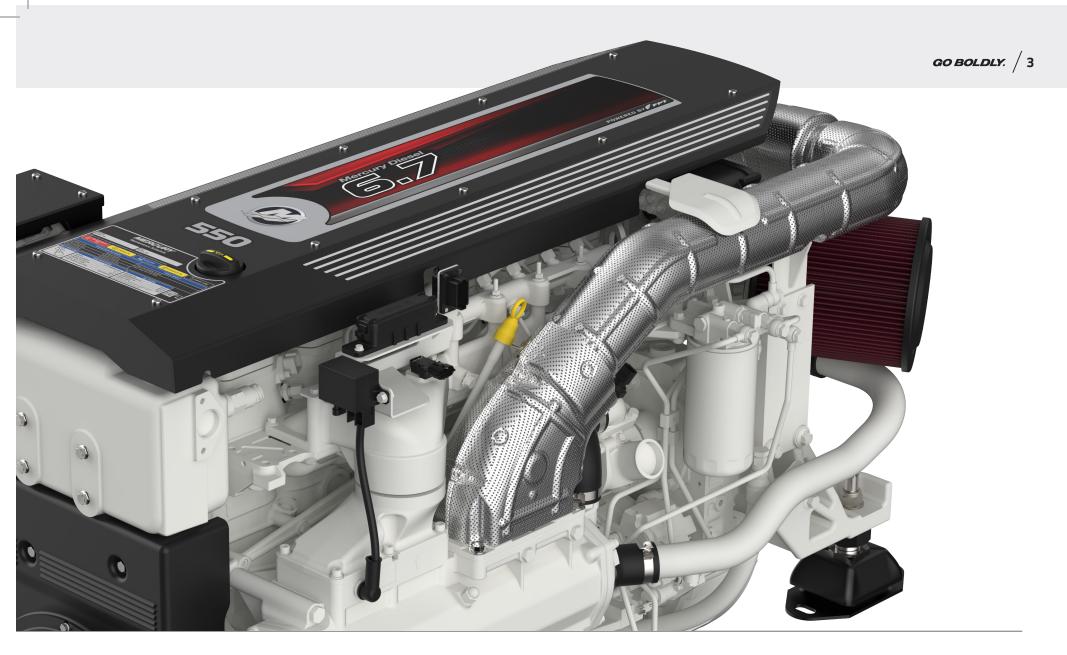
Available in pod, inboard and bobtail configurations, the Mercury Diesel 6.7L engine is compatible with all Mercury controls and SmartCraft® electronics and is serviceable through the Mercury global service network. Its SmartCraft compatibility also enables boaters to specify Digital Throttle & Shift (DTS) control systems including Mercury Zeus pods, Mercury Joytstick Piloting for Inboards, and Mercury VesselView® displays.



General Specifications					
Configuration	6 Cylinder (L6), FourStroke Diesel				
Bore and Stroke	mm (inch) 104 x 132 (4.094 x 5.197)				
Displacement	L (in3) 6.7 (411)				
Air handling	Turbocharged and Aftercooled				
Fuel system	High-Pressure Common Rail				
Rotation	Counterclockwise-Facing Flywheel				

Bobtail Dimensions and Weight						
Overall length	mm (inch)	1,089	9 (42.87)			
Overall width	mm (inch)	864	(34.02)			
Overall height	mm (inch)	848	(33.39)			
Dry weight	745kg (1,642lbs)					

<sup>\*</sup>Weight includes engine mount supports, alternator, and engine cover.

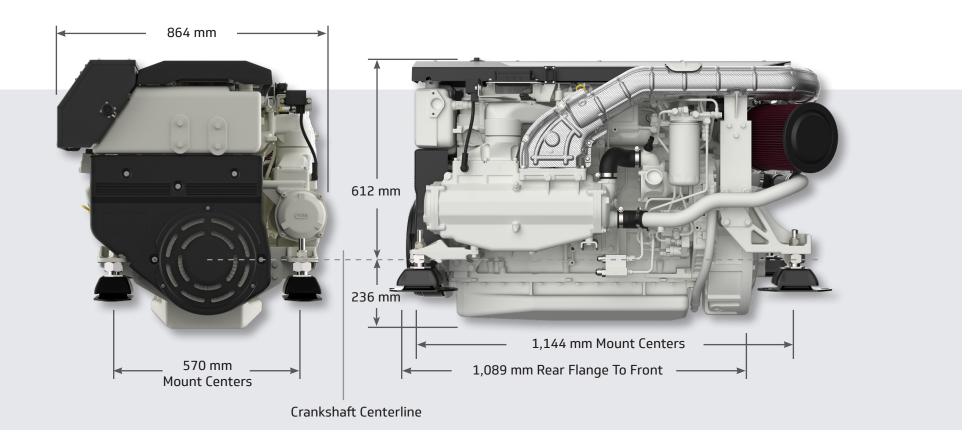


Model	Driveline Options	Output mHP	t Power kW	Fuel Use at Rated Speed L/hr (gal/hr)	Rated Use	Idle Speed (RPM)	Max Rated Engine Speed (RPM)		issions Ratin after treatme EU	
480	Bobtail Inboard	480	353	97 (25.6)						
500	Bobtail Inboard, Pod	500	368	101 (26.6)	Light Duty Commercial Recreational	600	3,200	Tier 3	RCD 2	Tier 2
550	Bobtail Inboard, Pod	550	405	113 (29.9)						

## PACK A PUNCH

# DIESEL

Mercury Diesel engines offer an exhilarating yet refined diesel-engine experience. Advanced turbocharging and injection technologies produce a powerband that's precisely calibrated for marine performance and outstanding economy. Lightweight designs boost performance further, while clean and quiet operation enhance your day on the water.



### **Engine**

- L6 Ladder-frame design
- Gray iron, high strength block and heads
- Fracture split connecting rods
- Rear gear train timing system
- Functional engine lay out
- Equipped with oil evacuation system

#### **Lubrication System**

- Self-draining oil filter for clean filter changes
- Pistons oil cooled by J-jets

#### **Fuel System**

- Bosch® CP3.3 high pressure pump
- CRIN 2 fuel injectors
- 4 micron filter protecting the system

### **Engine Control**

- Bosch EDC17 Controller
- Controller isolated mounted to ensure durability

#### Air Intake

• Walker filter/silencer included for noise reduction

#### Turbocharger

- Single turbo
- Waste gated
- Closed cooled

### **Cooling System**

- Thermostatically controlled
- Closed-cooled engine for corrosion protection
- · Seawater-cooled charge air cooler
- Standard cabin heater connections

## **Exhaust System**

- Closed-cooled manifold
- Closed-cooled turbocharger
- Seawater-cooled riser

## **Electrical System**

- Either 12V or 24V available
- High-output alternator
- 12V = 90 Amp
- 24V = 70 Amp

#### **Emissions**

- EPA Tier 3
- RCD 2
- IMO Tier 2

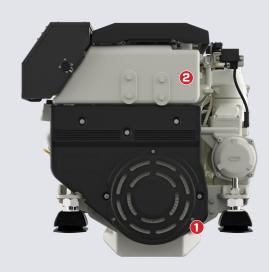
Bosch is a registered trademark of Robert Bosch GmbH. All other trademarks belong to Brunswick Corporation.



#### **FRONT VIEW FEATURES**

- 1. Belt and Damper Cover
- 2. Coolant Tank (Pressurized)



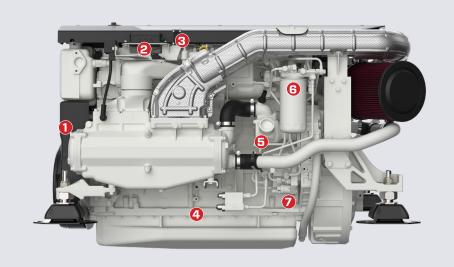


## **TOP VIEW FEATURES**

- 1. Maintenance/Specification Label
- 2. Oil Fill
- 3. Left Side Dipstick
- 4. Engine Cover Retention: 10X M6 Bolts and Washers with T30 Torx Drive Socket
- 5. Step Capable, Aluminum Engine Cover

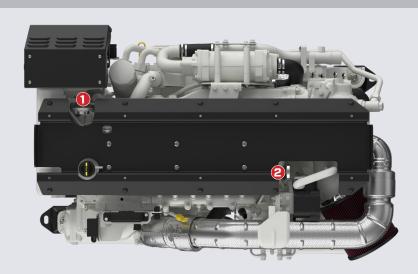
### **PORT SIDE VIEW FEATURES**

- 1. Aftercooler
- 2. Fuses
- 3. Engine To VIP Harness Connection (Deutsch 12 pin)
- 4. Fuel supply and fuel return connections
- 5.  $\Phi$  51 mm (2.00 in) Seawater in
- 6. Fuel Filter (4 micron)
- 7. Bosch CP3.3 Fuel Pump



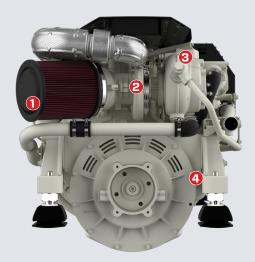
## **REAR VIEW FEATURES**

- 1. Walker Inlet Air Filter / Silencer
- 2. Compressor
- 3. Turbocharger (Closed Cooled)
- 4. 2X Stainless Steel Ground Studs



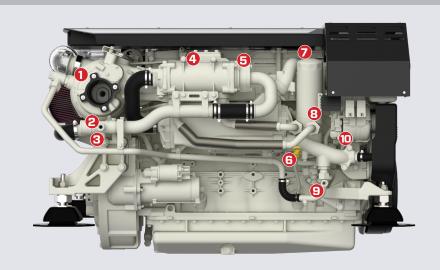
#### STARBOARD SIDE VIEW FEATURES

- 1. Exhaust Riser Options Available
- 2. Inboard Shaft Cooler Connection
- 3. Seawater Drain Plug
- 4. Cabin Heater Supply (Valved)
- 5. Oil Cooler
- 6. Right side dipstick
- 7. Oil Filter
- 8. Positive Electrical Connections
- 9. Cabin Heater Return (Valved)
- 10. Alternator



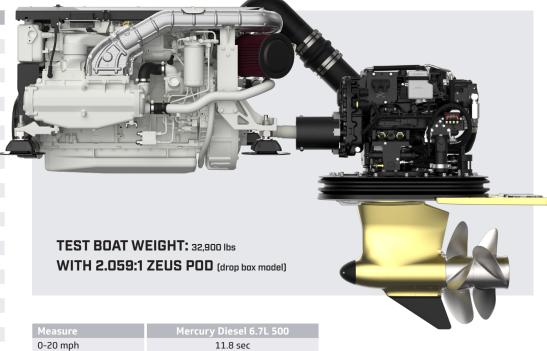
## **TOP VIEW (COVER REMOVED)**

- 1. Front Lift Hook
- 2. Rear Lift Hook





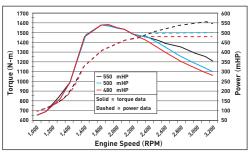
Specifications	480 mHP	500 mHP	550 mHP		
Compression ratio	15.8:1				
Fuel pre-filtration requirement	10 micron				
Fuel lift pump	Part of fuel pre-filter				
High pressure fuel pump	Bosch CP3.3				
Valves per cylinder		4			
Pistons	Oil jet cooled				
Fuel injectors	CRIN 2				
Air Inlet (Port rear)	Filtered and silenced				
Turbocharger		Fixed geometry, waste	gate		
Engine and turbocharger cooling		Closed cooled	_		
Coolers; CAC, Oil, Fuel and Engine		Tube and Shell			
Seawater pump/inlet mm (in)		Gear driven 51 (2	)		
Peak torque at RPM N-m (ft-lb)	1,580 (1,165) at 1,900				
Oil sump volume L (qt)		19.0 (20)			
Dipstick range L (qt)	14 to 19 (14.8 to 20)				
Oil maintenance interval hr*	250				
Flywheel size mm (in)	292 (11.5)				
Flywheel housing	SAE 3				
Electrical system	12 / 24 V 90 / 70 A				
Engine stop	ECU Controlled				
Engine Control Unit (ECU)	Bosch EDC17				
Throttle and shift	Mercury DTS				
Helm and gauge compatibility	Mercury SmartCraft				
Mercury Joystick Piloting for Inboards	Compatible				
Engine oil evacuation system	Standard				
Engine and ECU covers	Texture coated aluminur	n. Protects engine plus p	rovides step capable platform.		
Mercury Zeus pod **	Not offered	Straight with vertical cooler: 2:06:1 and 2:24:1 Drop box with XC cooler: 2.06:1 and 2:24:1	Straight with vertical cooler: 2.06:1 and 2.24:1 Drop box with XC cooler: 2.06:1 and 2.24:1		
Inboard: ZF 85 IV +	1.64:1, 2.00:1, and 2.49:1	Not offered	Not offered		
Inboard: ZF 280 IV ++		1.25:1, 1.56:1, 1.77:1, 2	.06:1, 2.28:1, 2.56:1 and 3.09:1		
Inboard: ZF 280-1 parallel offset++			5:1, 1.14:1, 1.21:1, 1.30:1, 2.00:1, 2.48:1, 3.00:1		
Inboard: ZF 280-1A down angle++		1.12:1, 1.48:1, 1.77:	1, 2.00:1, 2.23:1, and 2.48:1		
Sensors	Air pressure / temp, exhaust gas temperature, fuel pressure / temperature crank and cam position, oil pressure / temperature, coolant temperature, seawater pressure				



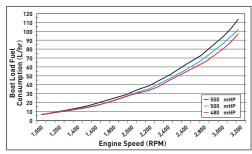
16.2 sec

40.8 mph

#### TORQUE & POWER (full load at crankshaft)



#### **BOAT LOAD FUEL CONSUMPTION**



0-30 mph

Top Speed

<sup>\*</sup> Typically there is no need to add oil during the 250 hr oil maintenance interval

<sup>\*\*</sup> The pod is connected to the engine via a driveshaft kit

<sup>+</sup> Only standard model available – no troll valve or transmission oil evacuation included

<sup>++</sup> Both standard (no troll valve) and also premium models (with troll valve and transmission oil evacuation) are available