



# 6LT Series - 500 / 580 / 640

Configuration	in-line, 4-stroke, vertical, water-cooled diesel engine	
Maximum output at crankshaft*	*367 kW@2530 rpm	[500 mhp@2530 rpm]
	*426 kW@2530 rpm	[580 mhp@2530 rpm]
	*470 kW@2530 rpm	[640 mhp@2530 rpm]
Displacement	8.710 L	[531 cu in]
Bore x stroke	117 mm x 135 mm	[4.60 in x 5.31 in]
Cylinders	6 cylinders	
Combustion system	Direct injection Bosch common-rail system	
Aspiration	Turbocharged & intercooled	
Alternator	24V - 90A	
Starting system	Electric starting 24V - 5.5kW	
Cooling system	Fresh water cooling by centrifugal pump	
	Sea water cooling by rubber impeller pump	
Lubrication system	Enclosed, forced lubricating system	
Direction of rotation [crankshaft]	Counterclockwise viewed from stern	
Dry weight without gear**	940 kg	[2072 lbs]
Emission compliance	EU: RCD 2	EMC
	US: EPA Tier 3**	IMO Tier 2

**NOTE:**

Fuel condition: Density at 15°C = 0.84 g/cm<sup>3</sup>

\* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]

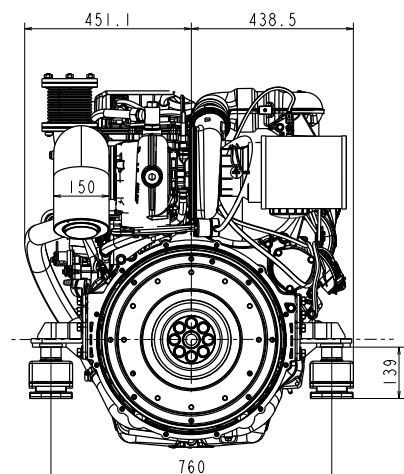
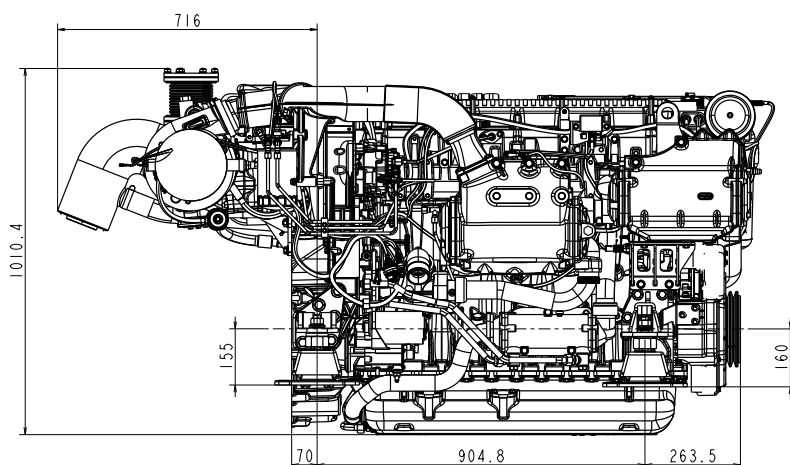
Technical data is according to ISO 8665: 2006/3046-1

\*\*Please note, the 6LT640 is not EPA Commercial certified

**DIMENSIONS**

Right side view

Rear view

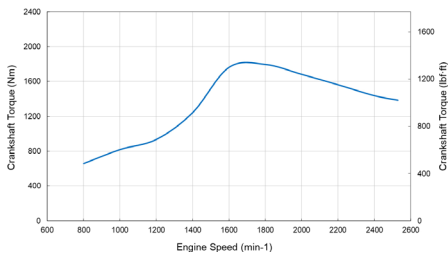


6LT series bobtail  
(Not to be used for engine installation)

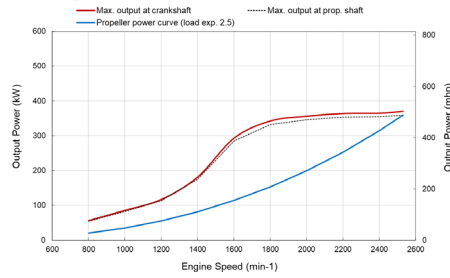


PERFORMANCE CURVES

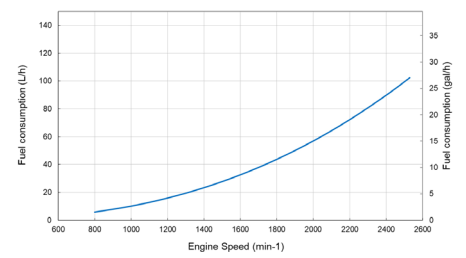
6LT500 Torque curve



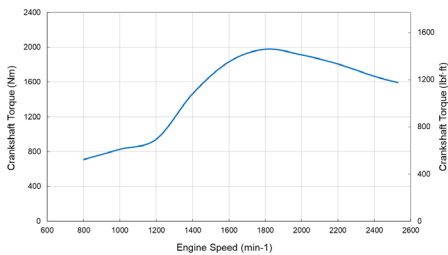
6LT500 Output Power curve



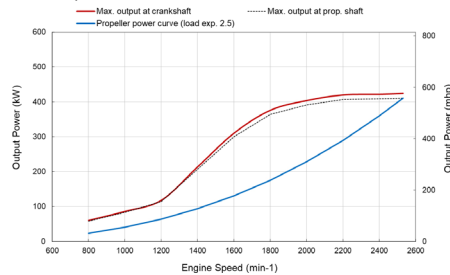
6LT500 Fuel consumption (load exp. 2.5)



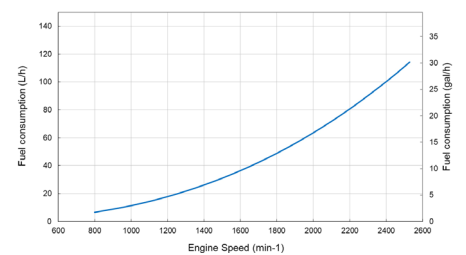
6LT580 Torque curve



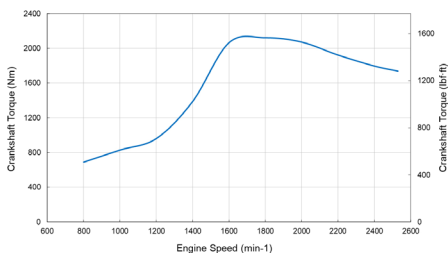
6LT580 Output Power curve



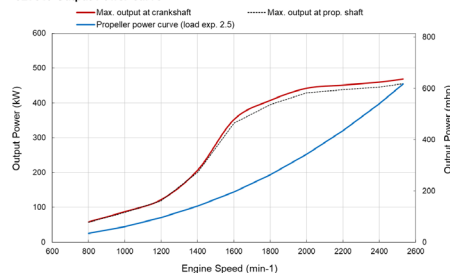
6LT580 Fuel consumption (load exp. 2.5)



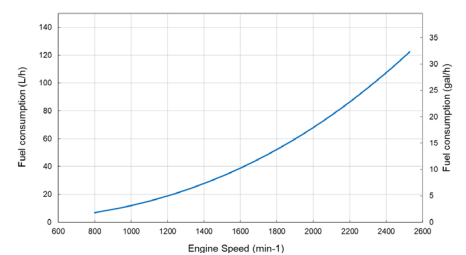
6LT640 Torque curve



6LT640 Output Power curve



6LT640 Fuel consumption (load exp. 2.5)



MARINE GEARS\*

<b>Model</b>	<b>ZF286A [Down angle: 7deg]</b>		
<b>Type</b>	Hydraulically actuated multi-disc clutch		
<b>Dry weight with propellers**</b>	125 kg [276 lbs]		
<b>Reduction ratio [fwd/rev]</b>	1.75 / 1.75	1.962 / 1.962	2.200 / 2.200
<b>Propellor speed</b>	1446 / 1446	1290 / 1290	1150 / 1150
<b>Direction of rotation viewed from the stern</b>	Clockwise & Counterclockwise		
<b>Dry weight engine with gear/drive **</b>	1065 kg [2347 lbs]		

\* Other marine gearboxes and configurations available upon request. Contact your local supplier for more information.  
 \*\* Dry weight includes cooler, brackets and damper disk.

ACCESSORIES

**Standard Package**

- 24V Electric system
- VC20 Vessel Control System
- Electronic CAN-bus control head
- Multi-function color display
- NMEA2000 or J1939 gauge output
- Switch Panel
- Back up Panel
- Mounting brackets

**Optional**

- High-riser mixing elbow
- Second or third station
- Front-PTO pulley [V-belt type A or B]
- Hot water connector
- JC20A Inboard Joystick
- EIAPP Certificate
- Flexible engine mounts

NOTE: All data subject to change without notice. Text and illustrations are not binding.