



6LT Series - 500 / 580 / 640

Configuration	In-line, 4-stroke, vertical, water-cooled diesel engine	
Max. output at crankshaft*	367 kW@2530 rpm	[500mhp@2530 rpm]
	426 kW@2530 rpm	[580 mhp@2530 rpm]
	470 kW@2530 rpm	[640 mhp@2530 rpm]
No. of cylinders	6 cylinder	
Displacement	8.710 L	[531 cu in]
Bore x stroke	117 mm x 135 mm	[4.60 in x 5.31 in]
Aspiration	Turbocharged & intercooled	
Combustion system	Direct injection Bosch common-rail system	
Starting system	Electric starting 12V – 2 kW	
Engine management	Electronic	
Cooling system	Fresh water cooling by centrifugal fresh water pump	
	Seawater cooling by rubber impeller seawater pump	
Alternator	24V - 90A	
Lubrication system	Enclosed, forced lubricating system	
Engine lube oil specifications	API class: CD or higher, SAE grade: 15W-40	
Direction of rotation at crankshaft	Counterclockwise (CCW) viewed from stern	
Dry weight without gear	1125 kg	[2480 lbs]
Engine dimensions† L x W x H	tbc	
Emission compliance	EU: RCD 2, EMC	US: EPA Tier 3**, IMO Tier 2
Flywheel housing size	SAE #1	
Controls	Electronic	

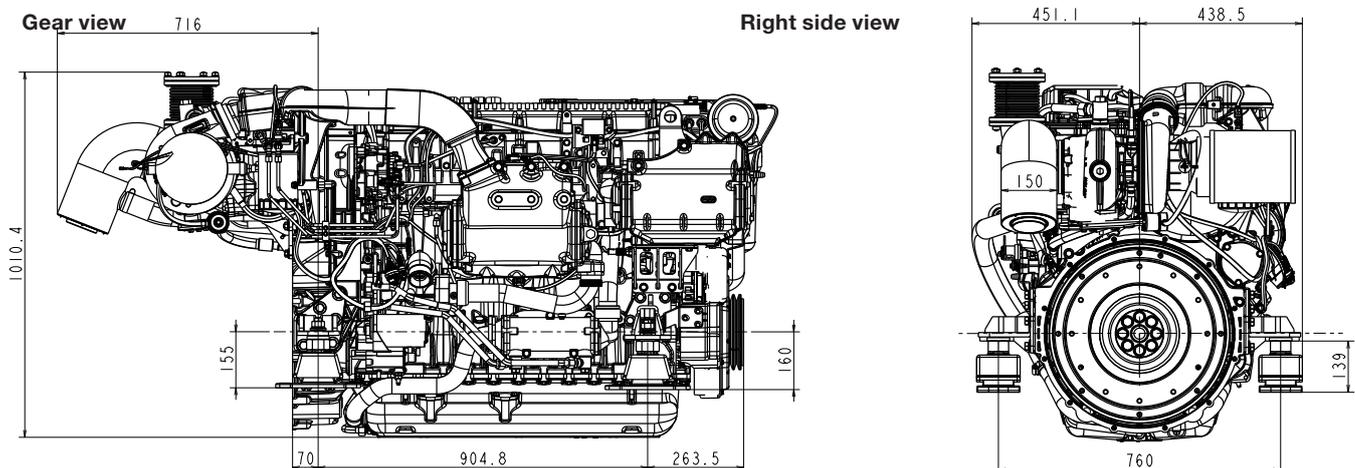
NOTE:Fuel condition: Density at 15°C = 0.84 g/cm³

* 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

† Length includes ZF305 marine gear (Dimensions may vary with other gears/elbow)

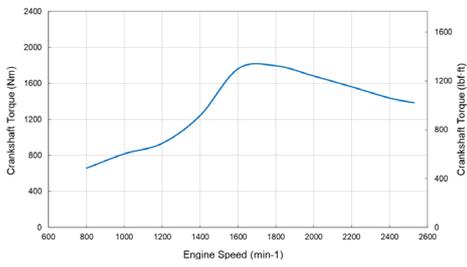
DIMENSIONS

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

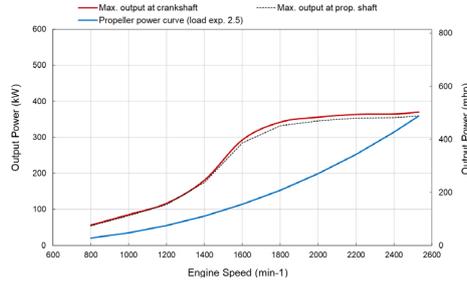


PERFORMANCE CURVES

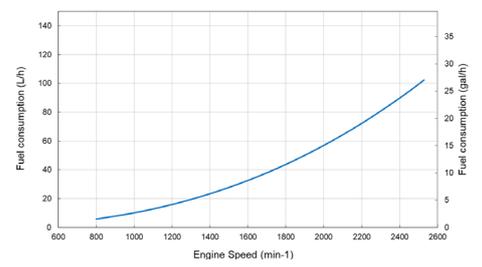
6LT500 Torque curve



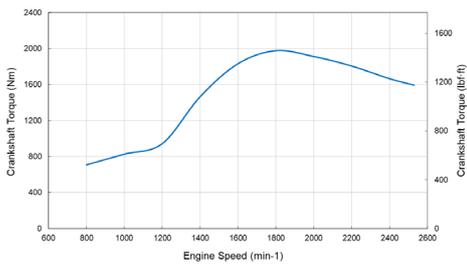
6LT500 Output Power curve



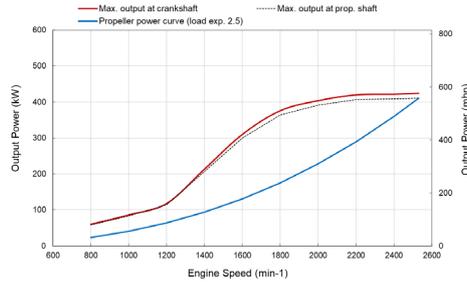
6LT500 Fuel consumption (load exp. 2.5)



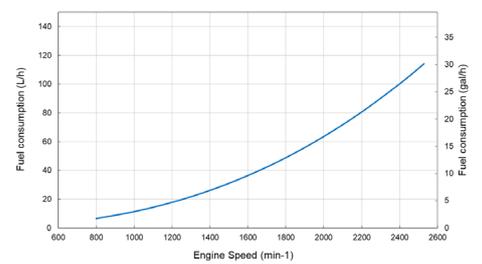
6LT580 Torque curve



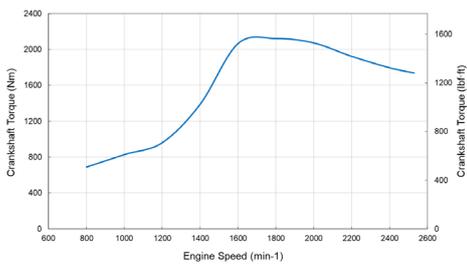
6LT580 Output Power curve



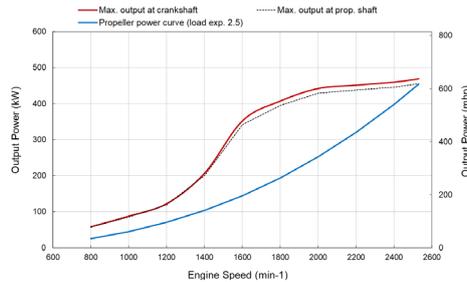
6LT580 Fuel consumption (load exp. 2.5)



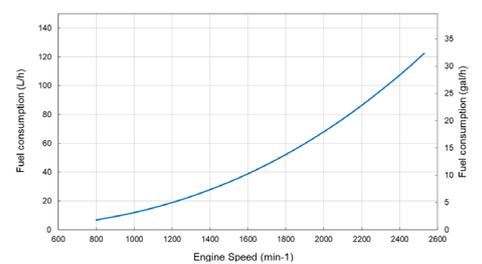
6LT640 Torque curve



6LT640 Output Power curve



6LT640 Fuel consumption (load exp. 2.5)



MARINE GEAR*

Model	ZF305-3A [Down angle: 7deg] / ZF305-3 [parallel]
Clutch type	Hydraulic multi disc
Dry weight**	122 kg [269 lbs]
Reduction ratio [fwd/asn]	Gear ratio's available from ZF
Direction of rotation [viewed from stern]	Clockwise & counterclockwise
Lubrication system	Forced lubrication
Lube oil specifications	API class: CF or higher, SAE grade: #30
Max. lube oil capacity	6 L [ZF305-3A] / 6,5 L [ZF305-3]
Dry weight - engine & gear	1255 kg [2767 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 [single pole]
- Exhaust mixing elbow [high riser]
- Mounting brackets
- Alternator 24V - 90A
- Fresh water expansion tank
- VC20 Vessel Control System
- Electronic CAN-bus control head
- VC20 Multi-function color display
- Switch Panel
- Backup Panel

Optional accessories

- Angled, parallel, or v-drive gearboxes
- 2-pole
- Flexible mounts
- Hot water connection
- Front-PTO pulley
- IMO Tier2 certificate [EIAPP]
- NMEA 2000 Engine monitoring system
- Extra helm stations

- Man Over Board Switch
- Extension harnesses [3m, 5m, 10m, 20m]
- JC20A Inboard Joystick

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