

Marine Engine- WHM6160 Series

General Specifications

Bore & Stroke	160x200 mm
Displacement	24.1 L
Cylinder Number	6
Compression ratio	15:1
Fuel System	Mechanical Pump
Aspiration	TA
Emission Standard	IMO Tier II



Duty	Model	HP	kW	RPM
P1	WHM6160C408-1	408	300	1000
P1	WHM6160C450-2	450	330	1200
P1	WHM6160C490-2	490	360	1200
P1	WHM6160C520-2	520	382	1200

Duty	Model	HP	kW	RPM
P1	WHM6160C550-5	550	405	1500
P1	WHM6160C580-5	580	426	1500
P1	WHM6160C620-5	620	456	1500

Standard Equipments

Engine and block

- Cast iron gantry type structure block
- One-piece casting crankshaft
- Separate cast iron cylinder heads and wet liners
- Aluminum alloy pistons with gallery oil cooling

Cooling system

- Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank
- Cast iron centrifugal fresh water pump, mechanically driven
- Self-priming raw water pump, mechanically driven

Lubrication system

- Filter with metal element, washable
- Fresh water cooled lube oil cooler

Fuel system

- P-type in-line injection pump
- Dual-skinned fuel pipe with alarm and leakage collector
- Duplex fuel filters replaceable engine running

Intake air and exhaust system

- Washable air filter
- Turbocharger optimized for marine application
- Insulated exhaust manifold and exhaust expansion joint

Electrical system

- 24V electric starter motor and battery charging alternator
- Voyage safeguard monitor and 5m harness

Certification

- CCS and EIAPP

Optional Equipments

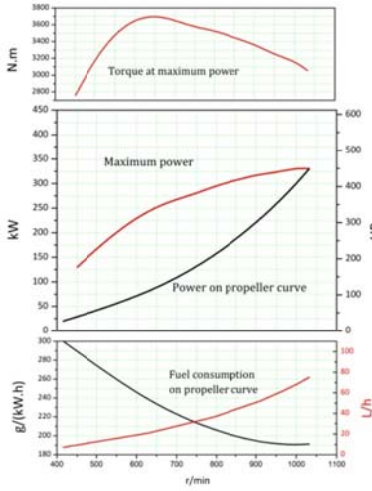
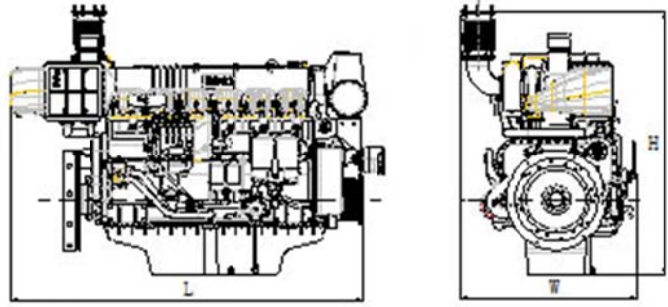
- Air starter with storage bottles
- Different harness length of remote monitor
- Free end PTO

Equipment and factory trial according to major Classification Societies rules

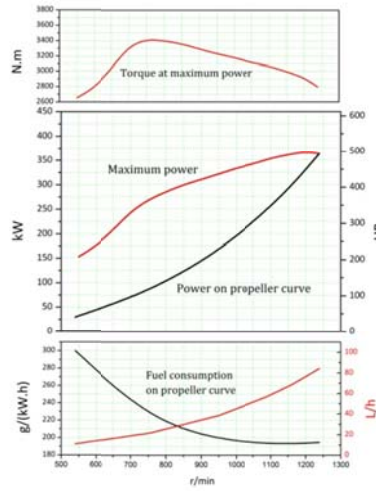
	P1 Duty	P2 Duty	P3 Duty	P4 Duty
Application	Unrestricted continuous	continuous	intermittent	high performance
Engine load variations	Very little or none	continuous	important	very important
Mean engine load factor	80 to 100%	30 to 80%	50%	30%
Annual working time	More than 5000 h	3000 to 5000 h	1000 to 3000h	less than 1000 h
Time at full load	unlimited	8 h each 12 h	2 h each 12 h	1 h each 12 h

Dimensions and Weight

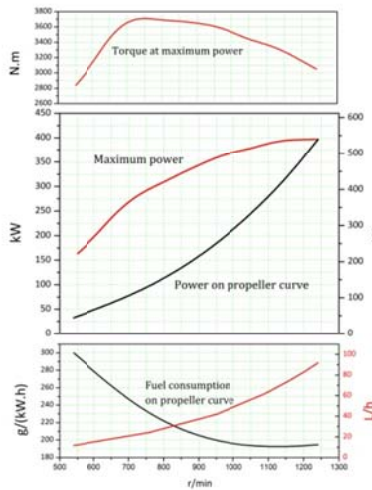
Length	2433 mm
Width	1105 mm
Height	1820 mm
Dry Weight	3100 kg



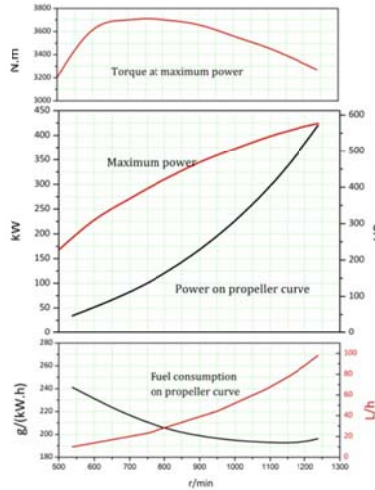
WHM6160C408-1



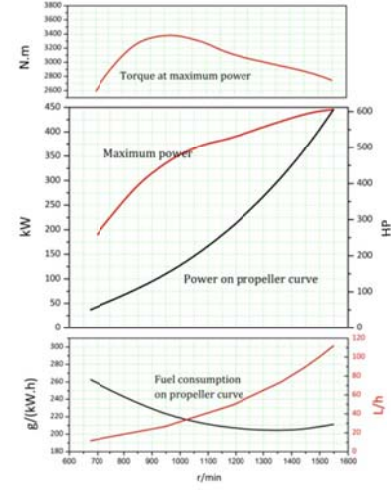
WHM6160C450-2



WHM6160C490-2



WHM6160C520-2



WHM6160C550-5

Power definition

Standard ISO 3046/1 -1995(F)

Reference conditions

Ambient temperature	25 °C
Barometric pressure	100 kPa
Relative humidity	30%
Raw water temperature	25 °C

Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	± 5 %

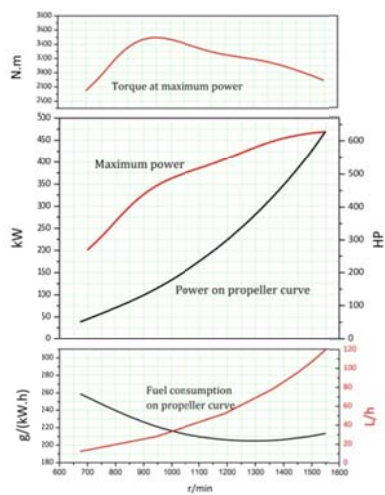
Lube oil

Recommend grade	CD 15W/40
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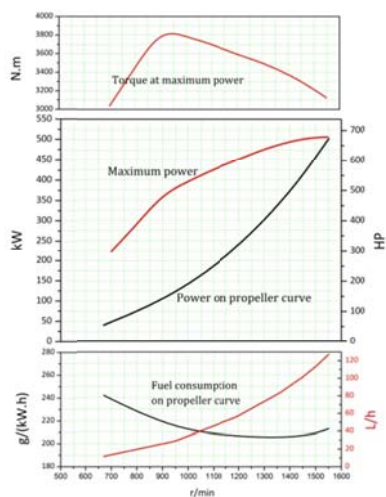


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WHM6160C580-5



WHM6160C620-5

