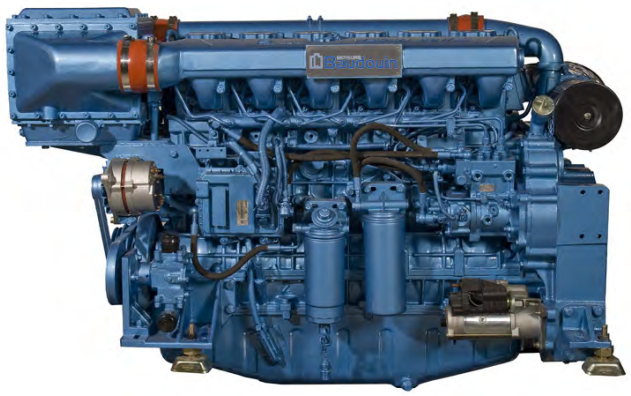
6 M19.3



Not contractual picture

4 stroke diesel engine, direct injection, common-rail

Bore and stroke	**126 x 155 mm**
Number of cylinders	**6 in line**
Total displacement	**11.6 litres**
Compression ratio	**17/1**
Engine rotation (ISO 1204 standard)	**CCW ***
Idle speed	**600 rpm**
Weight (without water & oil)	**1200 kg**
Flywheel housing	**SAE 1**
Flywheel	**SAE 14"**

* counter-clockwise

RATED POWER

Duty	rpm	kW	hp	Full load fuel consumption (g / kW.h)	IMO
P1	1800	331	450	199	II
P2	2100	368	500	205	II
P3	2100	404	550	209	II
P4	2200	425	578	218	II

STANDARD EQUIPMENTS

Engine and block
Cast iron cylinder block, with replaceable cylinder liners
Separate cast iron cylinder heads equipped with 4 valves
Replaceable valves guides and seats
Steel forged crankshaft with 7 bearings
Lube oil cooled light alloy piston with 3 high performance piston rings

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

Lubrification system
Full flow duplex type oil filters
Fresh water cooled lube oil cooler plate type

Fuel system
Electronic common-rail injection
Double wall injection bundle with alarm and leakage collector
Duplex fuel filters replaceable engine running
Water separator

Intake air and exhaust system
Exhaust gas manifold cooled by the engine fresh water
Dry turbo blower insulated
Low water temperature cooled intake air cooler

Electrical system
Voltage: 24Vcc
Electrical starter on flywheel crown
35A battery charger
Wheelhouse control panel

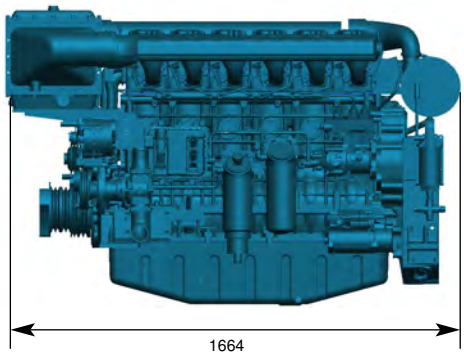
OPTIONAL EQUIPMENTS (extracts) *

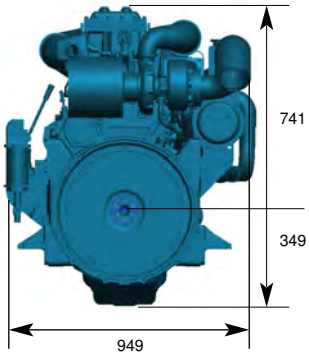
Cooling system adapted for box / keel cooling
Connection for emergency raw water circuit
Bilge pump
Air starter
Promachined free end PTO
Resilient mounts under engine
Exhaust water injection after turbocharger
Fresh water electrically heated
Cabin heating

* contact us for further information regarding our options.

	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 3000 h	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





Power definition
Standard ISO 3046/1 - 1995 (F)

Reference conditions

Ambiant temperature	25 °C / 77 °F
Barometric pressure	100 kPa
Relative humidity	30 %
Raw water temperature	25 °C / 77 °F
Limit conditions	ISO 3046

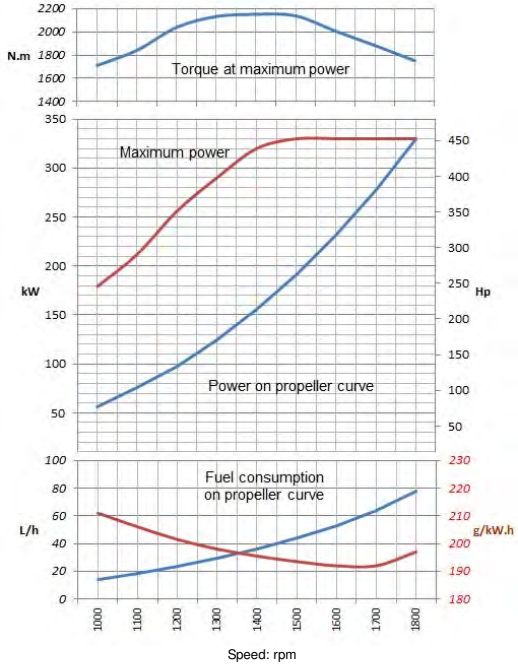
Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	0 ± 5 %
Inlet limit temperature	35 °C / 95 °F

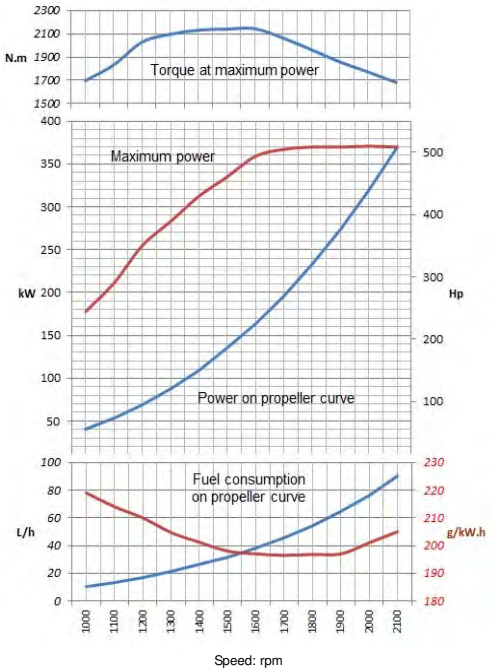
Our ratings also comply with classification societies maximum temperature definition without power derating.

Ambiante temperature	45 °C / 113 °F
Raw water temperature	32 °C / 90 °F

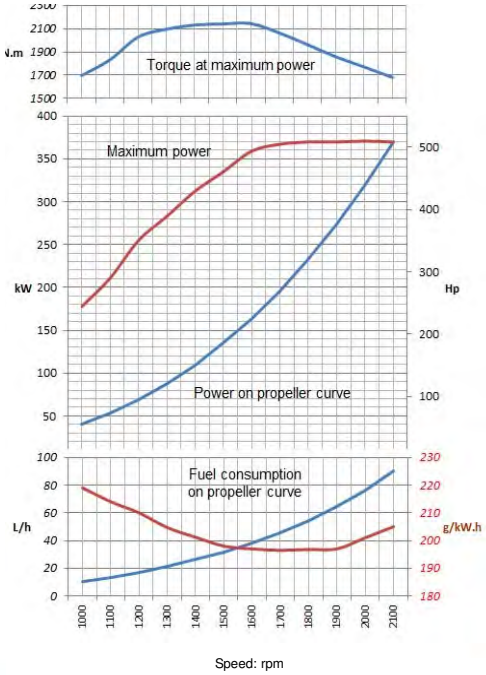
P1 rating - 331 kW / 450 hp @ 1800 rpm



P2 rating - 368 kW / 500 hp @ 2100 rpm



P3 rating - 404 kW / 550 hp @ 2100 rpm



P4 rating - 425 kW / 578 hp @ 2200 rpm