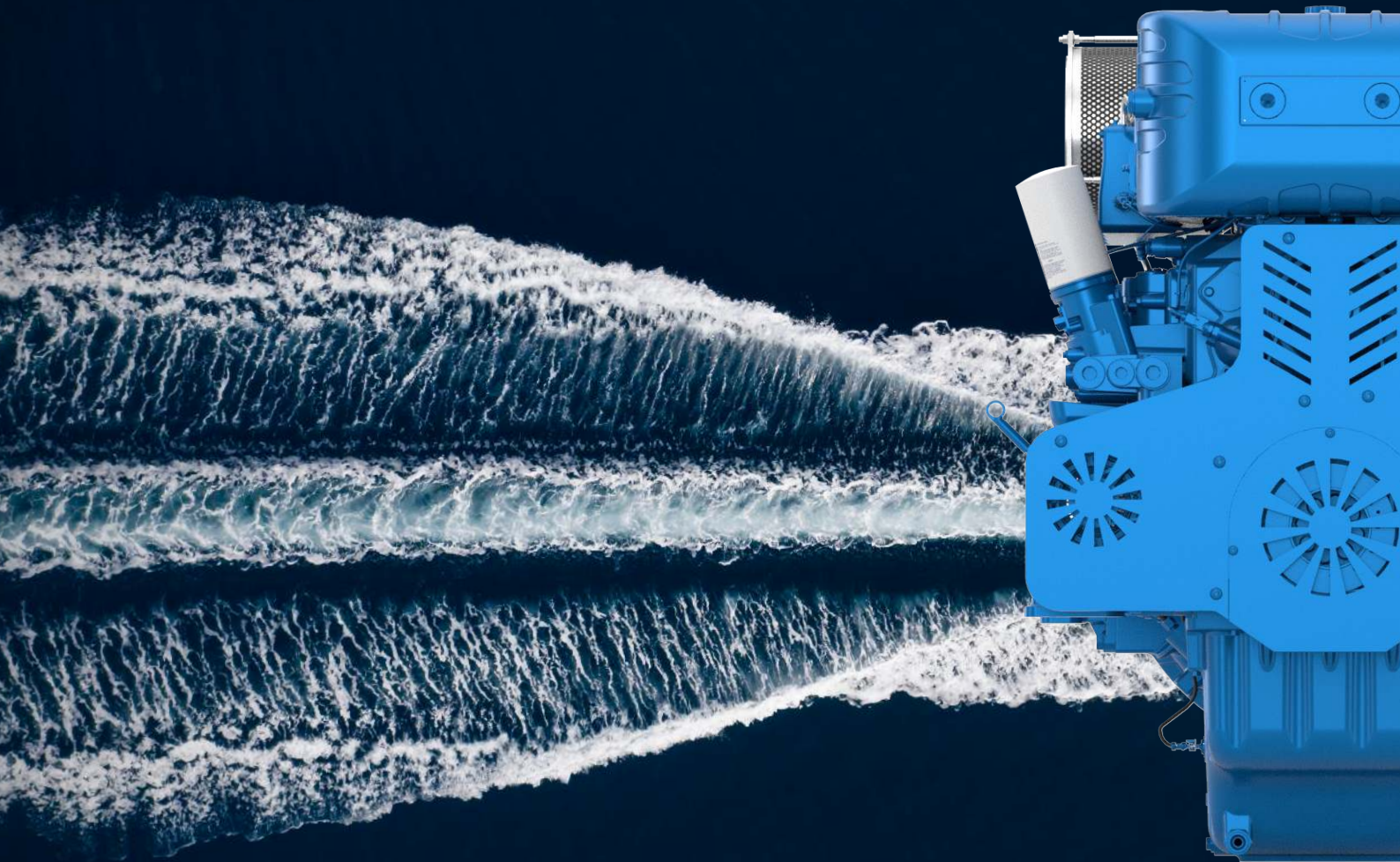




6M33.3

Common rail diesel engine



Number of cylinders	6
Bore and stroke (mm)	150 x 185
Total displacement (L)	19.6
Engine rotation	counter clockwise
Idle speed (rpm)	700
Flywheel housing	SAE 0
Flywheel	SAE 18"

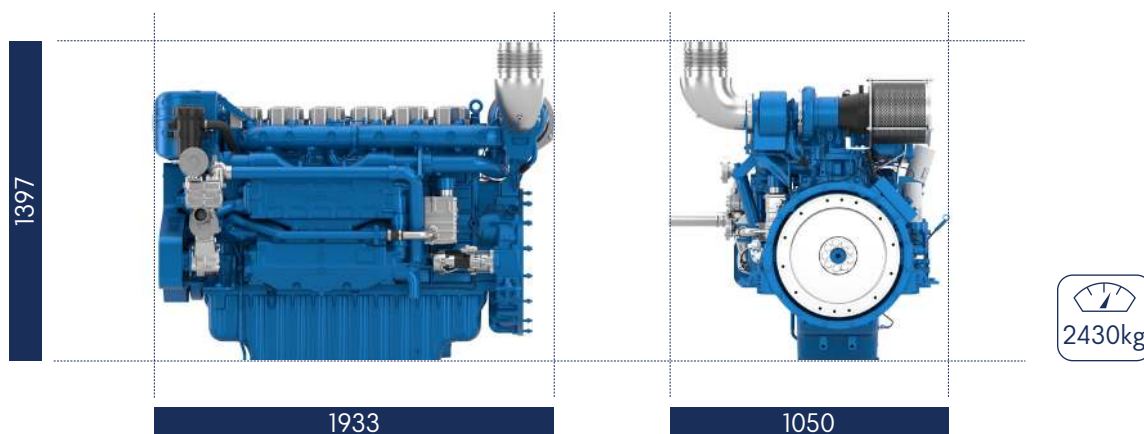
Duty	kW	HP	RPM	Fuel consumption			IMO EPA
				Optimum value	Rated power		
				g/kWh	g/kWh	l/h	
P1	552	750	1600	199	203	137	II EPA3
	552	750	1800	203	211	142	II EPA3
P2	574	780	1600	200	202	142	II EPA3
	574	780	1800	205	210	147	II EPA3
P3	670	911	1900	207	215	176	II

Baudouin's Engine DNA: Genuine Marine Power, Efficiency & Reliability

Our genuine marine engine design is specifically engineered for marine applications, ensuring durability, performance, and seamless integration in the most demanding environments. Designed for easy maintenance, our engines feature individual cylinder heads, allowing for quick servicing and minimal downtime to ensure uninterrupted operations. Built with key components made from highly durable materials, our engines guarantee long-term reliability and endurance in every condition.

Standard equipment

Dimensions and dry weight (mm/kg)



	P1	P2	P3	P4
Application	Unrestricted	Continuous (Heavy)	Intermittent	Light
Engine load variations	Not important	Important	Important	Very important
Average Engine load factor	80-100%	30-80%	60%	60%
Annual working time	5000 - 7000h	3000-5000h	1000-3000h	Less than 1500h
Time at full load	12h each 12h	8h each 12h	2h each 12h	1h each 12h

P1 Continuous Duty

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

P2 Heavy Duty

- Deep sea trawlers
- Shrimps trawlers
- Sea going tug boats
- River tug boats
- Push boats
- Freighters
- Dredges
- LCT
- Ferries

P3 Intermittent Duty

- Seasonal passenger vessels
- Fishing boats
- Pilot boats
- Commercial pleasure boats
- Pump boats
- Displacement sailboats
- Trawlers
- Bow thrusters

P4 Light Duty

- Private pleasure boats
- Multi-hull pleasure boats
- Survey or rescue fast vessels
- Military fast vessels.

P5 High performance Duty

- Private pleasure boats
- Multi-hull pleasure boats

Standard equipment

Engine & Block

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

Cooling System

Two - stage cooling circuit with built - in HT thermostatic valve
Integrated fresh water expansion tank
High efficiency tubular heat exchanger
Belt driven centrifugal fresh water pump
Self priming raw water pump with bronze impeller

Lubrication System

Full flow lube oil filters duplex type
Fresh water cooled lube oil heat exchanger
Electrical draining and pre-lub pump

Fuel System

Common-rail electronic injection
High pressure pump with shielded high pressure injection rail and pipes
Fuel oil filter duplex type

Intake Air and Exhaust System

Double flow raw water cooled intake air heat exchanger module
High efficiency dry turbocharger with ball bearing technology

Electrical System

Voltage: 24V DC insulated
Electrical starter
190A battery alternator

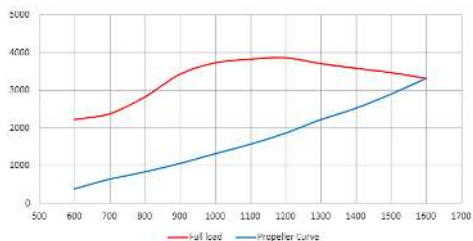
Optional Equipment

Keel Cooling configuration
1400N.m front PTO with elastic coupling
Additional pulley
Elastic mounting
Closed circuit blow by filtration
Air starter
Fresh water pre-heater
Cabin heating connections
Master BMS for full class engines
Additional displays

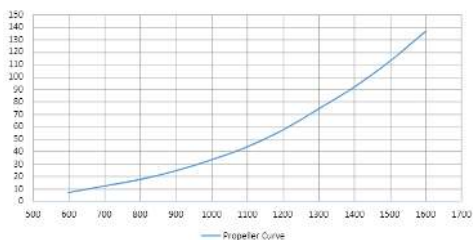
Performance

P1 552@1600rpm

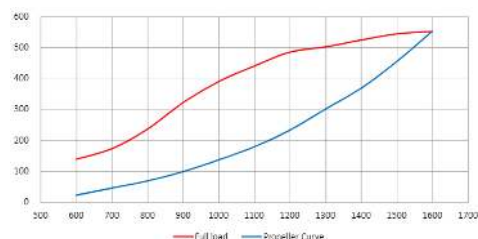
Torque



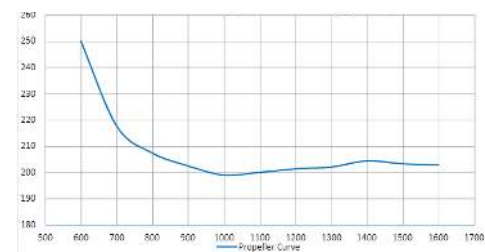
BSFC (L/h)



Power

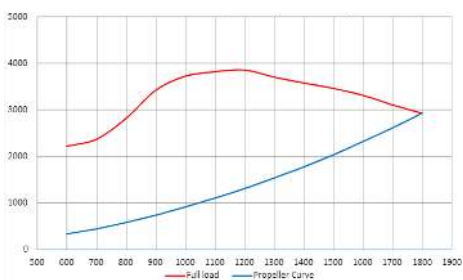


BSFC (g/kWh)

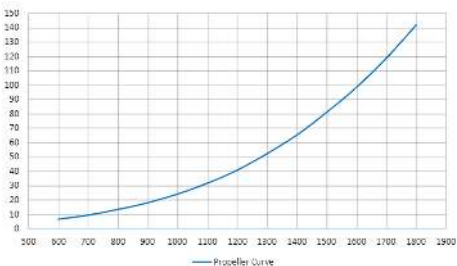


P1 552@1800rpm

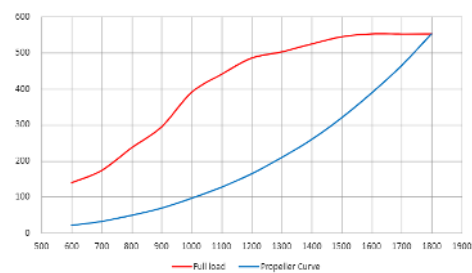
Torque



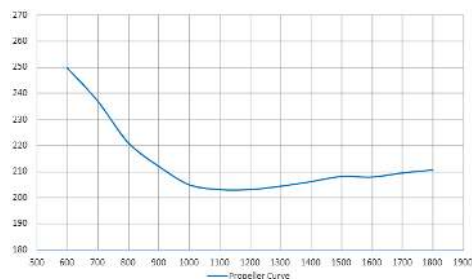
BSFC (L/h)



Power



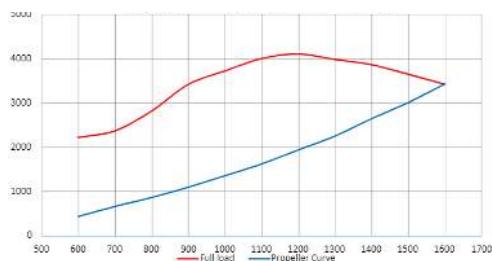
BSFC (g/kWh)



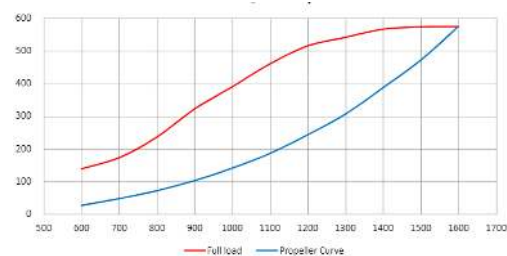
Performance

P2 574@1600rpm

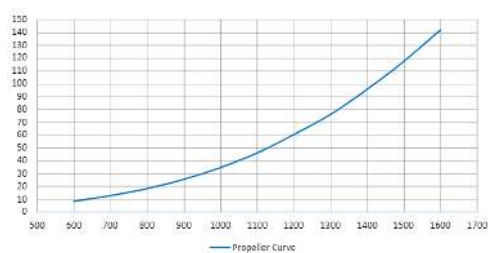
Torque



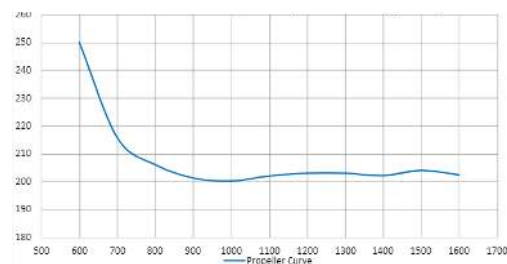
Power



BSFC (L/h)

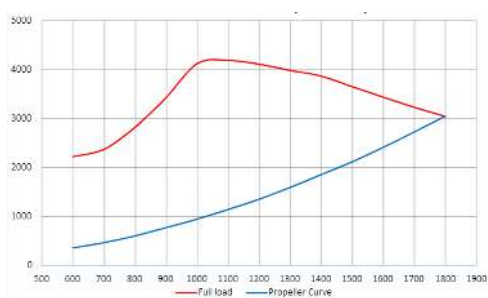


BSFC (g/kWh)

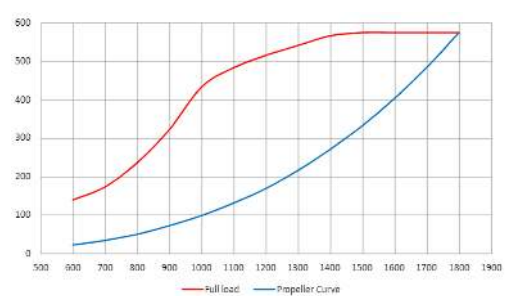


P2 574@1800rpm

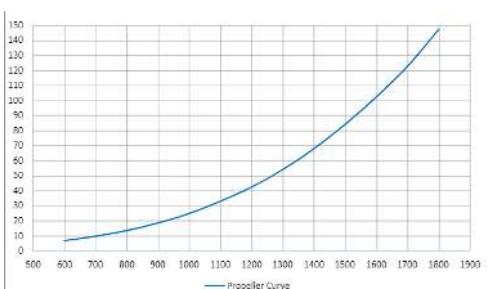
Torque



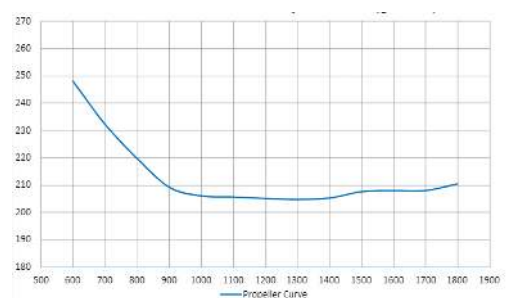
Power



BSFC (L/h)



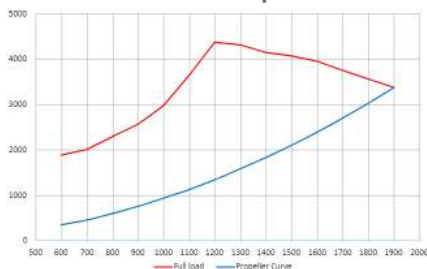
BSFC (g/kWh)



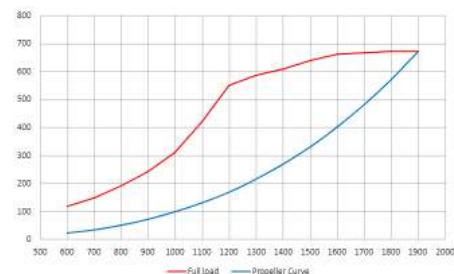
Performance

P3 670@1900rpm

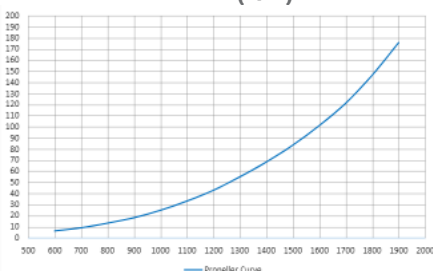
Torque



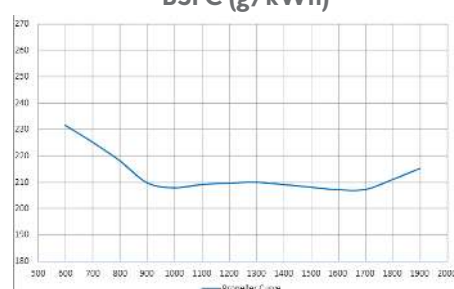
Power



BSFC (L/h)

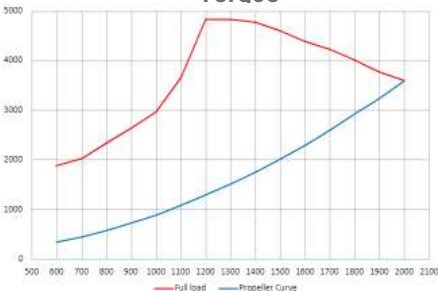


BSFC (g/kWh)

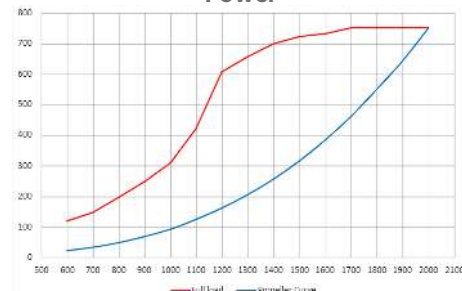


P4 750@2000rpm

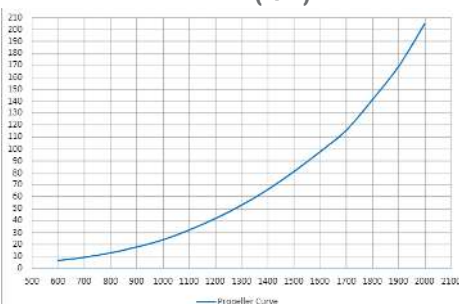
Torque



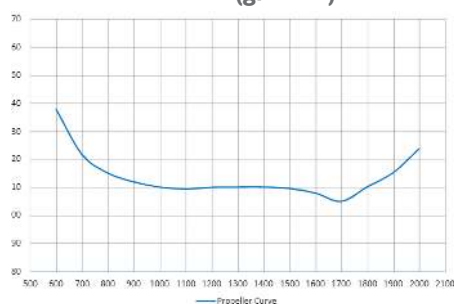
Power



BSFC (L/h)



BSFC (g/kWh)



Power definition

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

Reference conditions

Ambient temperature	25°C / 77°F
Barometric pressure	100 kPa
Relative humidity	30%R
Raw water temperature	25°C / 77°F

Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	+ 5%
	(DIN ISO 3046-1)
Inlet limit temperature	35°C / 95°F

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

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

