

P2 Duty 700 bhp - 1900 rpm

BAUDOIN

REF. IC 206-P2/A - 01/03/2005

CHARACTERISTICS

Diesel engine, 4 stroke, direct injection, turbocharged, with charge air intercooling.

Bore and stroke (mm)	150 x 150
Number of cylinders	8 in Vee
Total displacement (dm ³)	21.2
Compression ratio	14/1
Number of valves per cylinder	4
Engine rotation to ISO 1204 Standard	CCW
Idle speed (min-1)	650
Weight without water and oil (kg)	2475
Flywheel housing	SAE o
Flywheel	SAE 14"

TECHNICAL DESCRIPTION

Cast iron cylinder block, highly ribbed, with strengthened seating face

Main bearing caps fully imbedded with vertical and horizontal attachments

One inspection door per cylinder enabling an easy access to the connecting rod fixations

Cast iron liners, wet type, extremely rigid

Separate cylinder heads with large water circulation sections ensuring a maximised cooling mainly for the nozzle holder copper housing

Attachment of each cylinder head in eight points by high strength bolts with spherical seating washers under the bolts located between two cylinder heads

4 valves per cylinder head, with special steel thick head, with built up guides and seats, and rotators on exhaust valves

Special forged hardened steel crankshaft, with induction hardened journals, crankpins and connecting radius

Camshaft with polynomial profiled cams

Distribution system with tempered, hardened and surface corrected helicoïdal type gears

Chrome - molybdenum steel connecting rods

Light alloy pistons cooled by continuous oil jet from fixed nozzles ensuring also the lubrication of connecting rod foot shells

High performance piston rings

Raw water/fresh water heat exchanger with integrated expansion tank and regulation thermostatic valves (Adaptation for keel cooling as an option with integrated thermostatic valves)

Cast iron centrifugal cooling liquid circulation pump, mechanically driven

Bronze sea water circulation pump driven by 2 belts with tensioner

Bank of 3 oil filters with full flow screwable cartridges

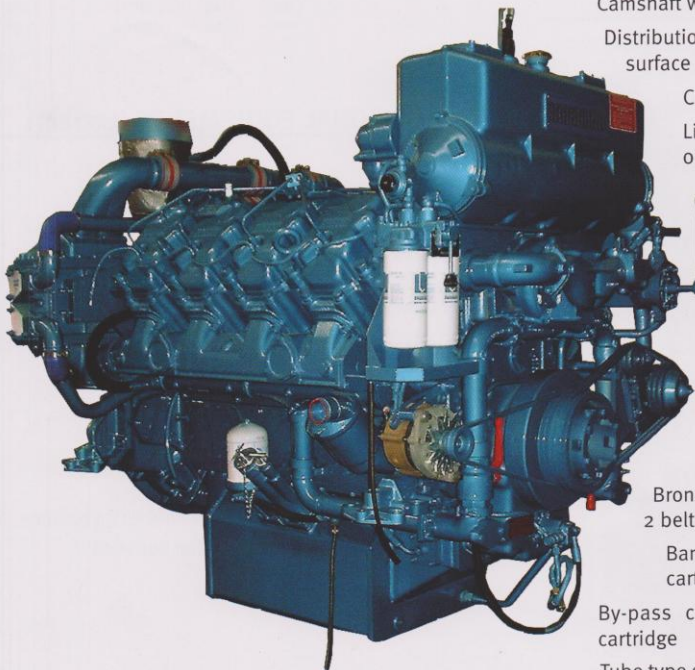
By-pass centrifugal oil filter with replaceable cartridge

Tube type oil cooler on engine cooling liquid circuit

In line monobloc injection pump with integrated "all speed" mechanical governor

Exhaust manifolds cooled by cooling liquid

High efficiency turbo-blower with turbine housing cooled by cooling liquid



8 M26 SRP

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POWER DEFINITION

Standard ISO 3046/1 - 1986 (F)

Reference conditions

Ambiant : **25 ° C**
 Barometric pressure : **100 kPa**
 Relative humidity : **30 %**
 Sea water temperature : **25 ° C**

Fuel oil

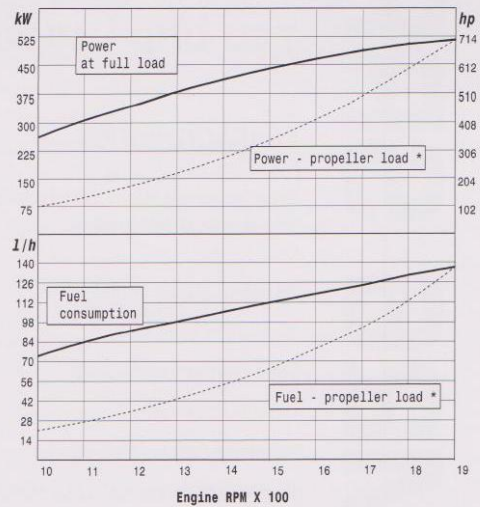
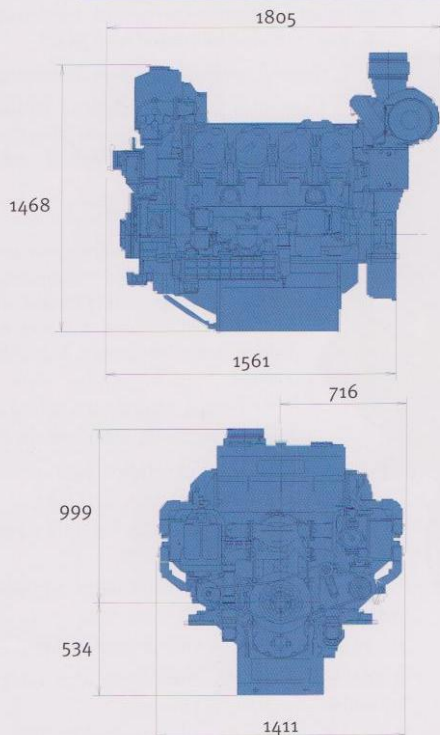
Relative density : **0,840 ± 0,005**
 Lower calorific power : **42700 Kj/Kg**
 Consumption tolerances : **+ 0 , + 5 %**

P2 DUTY DEFINITION

Application : **continuous**
 Engine load variation : **numerous**
 Mean engine load factor : **30 to 80 %**
 Annual working time : **3000 to 5000 h**
 Time at full load : **8 h each 12 h**

Typical applications : passengers vessels, harbour tug boats, motorbarges, coastal freighters, tuna boats, seiners, netters, potting boats, longliners, buoyers, supply vessels, oceanographic research vessels, commercial pleasure crafts

MAIN DIMENSIONS



* Power - propeller load $P=kN^0$

Engine RPM tr/min	Power - propeller load kW	Power - propeller load hp	Fuel - propeller load l/h
1000	75	102	10.5
1100	100	136	27
1200	130	176	34.5
1300	165	225	43.5
1400	206	280	53.5
1500	254	345	65
1600	308	419	79
1700	369	502	94
1800	439	597	113
1900	516	701	135

OPTIONAL EQUIPMENTS (extract)

- Adaptation for cooling by keel cooler
- Emergency circuits connections
- Bilge pump
- Double skin injection pipes
- Batteries charging alternator 175 A
- Pneumatic starter with air receivers and compressor
- Exhaust silencer
- Engine room control panel
- Overspeed safety device
- Front Power Take Off
- Resilient mounting
- Elastic coupling with reverse reduction gearbox
- Survey by main Classification Societies