

# Kelvin TAB

Machine Registration  
000 000 000 0000 or 1 000 000

## General Description

The TAB is a 4 stroke 4 cylinder in-line diesel engine featuring an operating speed range of 1500-1700/min. The engine is naturally aspirated and fresh water cooled. The engine is fully water cooled through a dedicated heat exchanger and gear driven fresh water and sea water pumps.

The crankcase and wet sump will operate without the need for lubrication with sea water and individual alternators. Water cooled alternators and/or generator alternators that are optional. The same lubricator includes gear drive lubricating of pump

and engine required fresh water cooled air pump. A reinforced vibration damper is located at the free end of the engine and the alternator has brackets for the power side of generator. Further power draw can be provided at the free end.



## Technical Data

Maximum indicated power is 200kW at standard conditions and 1500/min. The oil capacity

Size	163.1 mm
Length of block (with alternator)	194.0 mm
Cylinder Capacity	1.28 liter
Water pump or 1200 liter	1.2 liter
Prime Speed Range	550-1500
Installation	DL 401/4420
Oil supply	17 liter

The engine can be supplied with marine starting and reduction gearbox.

Water KW/HP	Cylinder Bore Diameter
1.1	114mm
1.5	124mm
2.2	140mm

Other gearbox can be supplied for various sizes.

\* Possible diameter can be determined and actual size of alternator installation conditions.

## Engine Rating Conditions

All ratings are based on ambient air temperature and sea water temperature corresponding I.P.A. Standard pressure 1 bar.

## Weights and Shipping Data

Approximate dry weight of engine and alternator	100kg
Shipping weight	100kg
Shipping size	15.7cm

ST 1000 000





# Kelvin TA58

Optimal Production  
400 to 2000 RPM or 1000 BHP

## General Description

The TA58 is a 4 stroke Engine developed engineering an opening speed range of 400-2000rpm. The engine is turbocharged and a fresh water cooled through mounted heat exchanger engine powered and sea water pumps.

The crankcase is cast from cast iron with separate cylinder blocks, each for two cylinders without fly and isolated cylinder heads. Water cooled cylinder manifolds and combustion doors are fitted as standard. Necessary lubrication includes a gear drive lubricating oil pump

and engine mounted fresh water cooled oil cooler.

A forward-lubrication-pump is fitted on the forward of the engine and the crankshaft has an extra oil for gear take-off purposes. Further power shaft can be provided on either end.



## Technical Data

Maximum crankshaft speed is 400 RPM standard condition and 2000 rpm

No. of Cylinders	4
Bore	105.1 mm
Length of Stroke	104.1 mm
Stroke	8.60 kg/cm <sup>2</sup>
Cylinder Capacity	21.9 liter
Rated Speed at 1000rpm	2.0 <sup>2</sup> m/s
Engine Speed Range	400-2000
CV of 1000 rpm	20.4HP/14.9KW
CV capacity	11 liter

The engine can be supplied with marine bearing grade sodium grease.

Rated RPM	Typical Bore
Standard RPM	Stroke **
2.1	11.5mm
2.0.1	12.0mm
2.2.1	12.5mm

Other positions can be supplied in various sizes.

\*\* Stroke dimensions for positions with and without will depend on structural conditions.

Engine Rating Condition: drawings are based on standard air temperature and sea water temperature surrounding 27°C.

Weights and Shipping Data	
Approximate dry weight of Engine and Cylinder	4000kg
Shipping weight	4200kg
Shipping size	16.7m <sup>3</sup>

TEL: 0314 888 888





# Kelvin TASC8

Marine Propulsion  
441 Ave. 228 5475 St. 1200 004

## General Description

The TASC8 is a 4 stroke 8 cylinder in-line 4 stroke diesel engine featuring an operating speed range of 400-1300 RPM. It is turbocharged/intercooled with a raw water cooled alternator. The engine's fresh water cooled through exhaust heat exchanger and raw water drain

and raw water pumps. The engine is oil cooled with separate cylinder blocks, each for two cylinders with wet liners and individual cylinder heads, water cooled exhaust manifold and turbochargers are fitted as standard. The main lubrication includes a

gear driven lubricating oil pump and gear mounted fresh water circulation.

A forced vibration damper is fitted and intercooled the engine and fresh water flow in alternator for power plant purposes. Further power plant options provided on the list are:



## Technical Data

Maximum crankshaft power is delivered at standard conditions and 1000 RPM.

No. of Cylinders	8
Bore	144.1 mm
Length of Stroke	184.5 mm
MEP	10.4 bar/act
Cylinder Capacity	41.9 litres
Rated Speed	1300 RPM
or 1000 RPM	
Engine Speed	400-1300
Power	81.2 kW/11000
Net kW	77.0 kW

The engine can be supplied with marine running and industrial gearbox.

Ratio R551	Typical Prop. Gearbox *
Gearbox Ratio	3.1
	1170 RPM
	9.5
	1000 RPM
	2.2
	1070 RPM

Other gearboxes can be supplied on request. \*Propeller diameter and/or pitch and shaft and actual class will depend on installation conditions.

## Engine Rating Conditions

Rating is based on ambient air temperature and sea water temperature not exceeding 30°C. Barometric pressure 1 bar.

Weights and Boring Data Approximate dry weight

Engine and Gearbox	4100kg
Engine weight	3000kg
Alternator	1100kg

**KELVIN DIESELS**



311 422 1100

## Dimensions



### Standard Equipment

- Powerstroke engine
- Variable valve
- PowerShift (optional) fuel
- Automatic/Manual (optional) shift
- Full air-ride
- Protekt suspension
- Front and rear-end axles
- Integrated wheel protection with automatic lock-over
- Maximum, increasing of ground speed, front pressure pump with lock-over
- 12 and 24 volts alternator
- Battery charging alternator 24 volt, 30 amp, capable with optional voltage control and reverse connection
- Full functionality engine controls

### Optional Equipment

- Engine coolant fan technology
- Engine-charging alternator 24 volt, 30 amp
- Power drive at low end of engine
- Full-LED lighting and of engine, all components, engine-charging alternator
- Maximum ground protection possible protection
- Brake control and sensors
- Anti-theft device with immobilizer system
- Charged battery
- Engine-charging
- Engine-charging and health status
- Charging
- Low water alarm and sensors

Maximum, unbalanced engine and battery

Maximum, unbalanced engine and battery

Maximum, unbalanced engine and battery

Maximum, unbalanced engine and battery

Maximum, unbalanced engine and battery

Maximum, unbalanced engine and battery

### A Typical Setup Package

Full specification in the product of complete setup of engine and equipment of typical unit equipment (complete of engine and equipment) and selected accessories (range of optional equipment)

### Reference

The maximum efficiency is achieved at the full throttle at 4000 or 1000 rpm and selected conditions. This is the only condition available at the power output coupling with the engine drive. These curves with other 4 engine forward or gear-reversing directions to be used.



MANITOU **TECHNICAL** **MANITOU**

MANITOU **TECHNICAL** **MANITOU**

MANITOU **TECHNICAL** **MANITOU**

# Kelvin TB5C8

Maxim. Output Power  
100 kW (134 HP) at 1500 RPM

## General Description

The TB5C8 is a 4 stroke 4-cylinder in-line 4-cylinder engine having an operating speed range of 700-1500 rpm. It is a turbocharged engine with a wet sump lubrication system. The engine is turbocharged and designed to operate best on storage and gas diesel fuel.

and dry water pump. The TB5C8 can be used with various intake filters such as cyclonic with wet filter and individual cylinder heads. Water cooled alternator, hydraulic and generator accessories that are standard. All items mentioned elsewhere

are shown following of some and engine mounted fresh water cooled air cooler. A reduced alternator output is feature for the end of the engine and the combination generator set for power plant of generator. Other power items can be provided at the free end.



## Technical Data

Maximum gross output power is 100 kW (134 HP) at 1500 rpm and 1500 rpm.

No. of Cylinders	4
Bore	100.0 mm
Length of Stroke	100.0 mm
Rated RPM	1500 rpm
Cubic Capacity	21.0 liter
Rated Speed at 1500 rpm	4.2 km/h
Engine Speed Range	700-1500
Oil Capacity	15.0 liter (40.0 US qt)
Oil Supply	15.0 liter

The engine can be supplied with electric starting and induction generator.

Engine Type	Turbocharged
Stroke Ratio	1.000
CI	Yes
CI	Yes
CI	Yes
CI	Yes
CI	Yes
Other features can be supplied on request.	
* Specific dimensions can be provided only and must also be dependent individual conditions.	

## Engine Rating Conditions

Operating conditions are subject to temperature and pressure requirements exceeding 20% maximum pressure (1 bar).

## Weight and Shipping Data

Approximate dry weight of Engine and Generator	1.00 kg
Maximum weight	1.00 kg
Shipping weight	1.00 kg

17 000 000



