VOLVO PENTA INBOARD DIESEL

TAMD31S

4-cylinder, 4-stroke, direct-injected turbocharged marine diesel engine with aftercooler and reverse gear. 74 kW (100 hp)*

* Crambothalf power accounting to ISO 8005.

Reliable marine engine

TAMD31S is a reliable and economic marine engine with considerable power resources, developed for displacement craft, such as motorboats and sailing yachts.

Direct injection

Direct injection (DI) results in a low thermal load and low fuel consumption compared with swirl chamber engines (BDI) with the same cylinder capacity.

Turbocharging

The engine is turbocharged with an exhaust-driven turbocompressor. More air can be forced into the cylinder in this way with the result that more fuel can be injected and the engine runs more efficiently. Since combustion takes place in a turbo engine with excess air, the exhaust gases are clearer than in a naturally-aspirated engine.

The newly-designed turbo is controlled by a wastegate valve och gives a considerably higher torque at low engine speed.

The turbo also acts as an additional silencer both on the induction side and on the exhaust side.

Aftercooler

The air heats up and expands when it is compressed. In other words, it takes upmore space. The aftercooler cools the compressed and heated air and raises its oxygen content so that the engine canuse the fuel more efficiently.

Low exhaust emission levels

The direct injection, turbocharging and aftercooler contribute to minimizing nexious exhaust emissions and enhancing overall enjoyment of boating. The TAMD31S is certified according to BSO II and SAV.

Reverse gear

Volvo Penta's mechanically and hydraulically shifted reverse gears have been specially developed with a view to increasing the standard of comfort on board in terms TAMOSHS with reverse great HSQSA

of quiet running, greater reliability and enhanced efficiency.

The combination of 8° down angle, large drop center and small dimensions provides for optimized installatons.

A trolling valve kit is available to meet special demands, e.g. for sportfishing.

At Volvo Penta, focus is on developing the complete drive line ensuring perfectly matched engine/transmission packages for high torque, operational reliability, reduction of engine noise and vibrations.

Comprehensive service network

Volvo Penta has a well-established network of authorized service dealers in more than 1:00 countries throughout the world. These service centers offer Genuine Volvo Penta Parts as well as skilled personnel to ensure that you enjoy the best possible service.

Technical description:

Engine and block

- Cylinder block and cylinder head made of cast iron for good corrosion resistance and long service life.
- Oil-cooled pistons with two compression
- rings and one oil scraper ring - Replaceable wet cylinder liners
- Replaceable valve seats
- Five-bearing crankshaft

Engine mounting

 Elastic suspension consisting of 4 rubber pads with adjustable anchorage plates for dampening of sound and vibration

Lubrication system

- Pressure lubrication system with easily replaced full-flow oil filter on the side of the engine
- Tubular oil cooler that can be cleaned

Fuel system.

- Rotor type injection pump with a mechanical governor for accurate speed control
- Smoke limiter
- Fine filter with water separator
- Feed pump with hand primer
- Electrically operated stopping device



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