VOLVO PENTA INBOARD DIESEL

D25A MS

6-cylinder, 4-stroke, direct-injected, turbocharged marine diesel engine with aftercooler – crankshaft power 485 kW (660 hp)

Powerful and reliable engine for demanding operation in commercial applications

The Volvo Penta D25A MS engine is constructed to meet the most demanding requirements, such as marine main propulsion or marine generator drive. Its compactness and durability applies the most advanced technologies and engineering know-how; all this to benefit the operator.

The Volvo Penta D25A MS diesel engine is built to the highest quality standards recognized by all the major marine classification societies, such as Germanischer Lloyds, Norske Veritas etc. as well as the national Shipping Inspections.

Volvo Penta is continuously making intensive research work on the marine application of the engine to produce an engine with a compact design, which gives many advantages, such as low running costs in relation to high output.



An optimal combination of combustion chambers, fuel injection system, and effective turbocharger and charge air cooling system, provide an excellent fuel con-sumption over the whole range of engine speeds, through which the engine is economical in operation.

Maintenance is very easy, as supplementary equipment such as fuel injection pump, governor, water pump and turbocharger do not need any separate lubrication. The cylinder heads are individually divided by cylinder, and the engine has large inspection covers in crankcase and oilpan.

As the dimensions of the D25A MS engine are kept as small as possible, it takes up surprisingly little space. This asset will be subscribed whole-heartedly by the person who is in charge of the engine room. An engine room equipped with this engine is a well-or-dered engine room.

Warranty and Service

All Volvo Penta marine engines come with the additional benefit and security of the Cost Control Program, a unique system of operator support and financial control – from installation to after-sales service.

The optional international limited Volvo Penta three-year warranty provides the owner peace of mind. Qualified Volvo Penta dealers stand by for service and support in more than 100 countries all over the world.

Diesel&Gas Service 111524, Россия, г. Москва, Проезд Фрезер, д.2, стр.107 Телефок: +7 (495) 775 01 27 E-mail: info@dieselgass.ru

D25A MS

Technical Data

Engine designation D2	5A MS
No. of cylinders and configuration in	
Method of operation 4-stroke, direct-ir	
turbocharged diesel engine with afte	
Bore, mm	
Stroke, mm	180
Displacement, I	
Compression ratio	
Dry weight, kg	
Crankshaft power at calculated propeller	
Rating 1, kW (hp) 1600 rpm 440	
Rating 2, kW (hp) 1650 rpm 48	
Torque at calculated propeller load,	0 (000)
Rating 1, Nm 1600 rpm	na
Rating 2, Nm 1650 rpm	
Recommended fuel to	11.a.
conform to ASTM N	
Specific fuel cons. at calculated propeller load,	
Rating 1, g/kWh 1600 rpm	
Rating 2, g/kWh 1650 rpm	

All data represent net performance with standard accessories such as fuel injection pump, water pump, LO. pump and charging alternator under the conditions of 100kPa (750 mm Hg), barometric pressure 300K (27°C) ambient temperature and 60% relative humidity.

Standard Equipment:

Engine

- Flywheel housing with connection acc. to SÁE 0

- Flywheel (18")
- Engine brackets

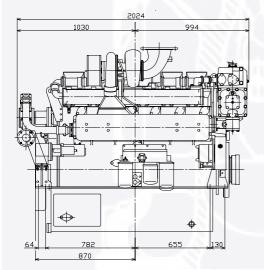
Lubrication system

- Fresh water cooled oil cooler
- Spin-on type oil filter with shift valve - Spin-on type oil by-pass filter

- Fuel system
- Hydraulic governor
- Jacketed fuel pipes
- Spin-on type fuel filter (change-over type)
- 24V fuel shut-off valve, electrically operated

Dimensions D25A MS

Dimensions in mm Not for installation.



Exhaust system

- Non-cooled turbocharger - Air inlet filter/silencer

Cooling system

- Fresh water cooled exhaust mainfold
- Fresh water cooled aftercooler with insulator cover
- Fresh water pump (V-belt driven)

Electrical system

- Starter motor (DC 24V-7.5kW)
- Alternator (24V-35A)

Other equipment

- Front P.T.O. pulley (2x B groove)
- Front safety cover
- Standard tools

Optional Equipment:

- Electrical system including wiring, senders, switches and terminal box mounted on engine
- Instrument panel for engine-room and wheel-house
- Air starting system on request
- Oil drain pump
- Flexible exhaust hose for dry exhaust line
- Dry exhaust silencer
- Fuel filter/water separator with shift valve
- Classification under regulations of: LR, ABS, DNV or GL
- Gearbox on request
- Spare parts
- Spare parts according to classification recommendations

Contact Volvo Penta for further information.

Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice.

The engine illustrated may not be entirely identical to production standard engines.

582 591 160, 48 470 470 500 500

Performance Data Heavy Duty Rating 1

Medium Duty Rating 2

Crankshaft power at full load,	
R2, kW (hp) 1650 rpm 485 (659)	
R2, kW (hp) 1500 rpm 474 (644)	
R2, kW (hp) 1400 rpm 453 (616)	
R2, kW (hp) 1300 rpm 421 (573)	
Crankshaft power at calculated propeller load,	
R2, kW (hp) 1650 rpm 485 (659)	
R2, kW (hp) 1500 rpm 364 (495)	
R2, kW (hp) 1310 rpm 242 (330)	
R2, kW (hp) 1039 rpm 122 (165)	
Torque at full load,	
R2, Nm 1650 rpm 2918	
R2, Nm 1500 rpm 3136	
R2, Nm 1400 rpm 3212	
R2, Nm 1300 rpm 3219	
Torque at calculated propeller load,,	
R2, Nm 1650 rpm 2918	
R2, Nm 1500 rpm 2410	
R2, Nm 1310 rpm 1838	
R2, Nm 1039 rpm 1162	
Specific fuel consumption at full load,	
R2, g/kWh 1650 rpm 216	
R2, g/kWh 1500 rpm 213	
R2, g/kWh 1400 rpm 213	
R2, g/kWh 1300 rpm 213	
Specific fuel cons. at calculated propeller load,	
R2, g/kWh 1650 rpm 216	
R2, g/kWh 1500 rpm 216	
R2, g/kWh 1310 rpm 218	
R2, g/kWh 1039 rpm 235	

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