OIL & GAS D5A TA







HAZARDOUS AREA POWER PACK



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For use in the oil and gas industry Category 3G (Zone2) T3 IIA ATEX Certifed (94/9/EC) up to +50°C ambient temperature. Suitable for nitrogen pumps, coiled tubing units, compressors, hydraulic powerpacks, generator sets etc...

VOLVO PENTA DIESEL D5A TA FOR EXCELLENT RELIABILITY AND ECONOMY

D5A TA is highly reliable, type approved, marine diesel engines, now adapted for the Oil & Gas Industry. Wellmatched engine speed to rated power with excellent torque characteristics along with a varity of power take-off options makes them particulary well suited for Oil & Gas applications.

ROBUST AND SILENT

A rigid in-line cylinder block with generously dimensioned crankshaft bearings, together with watercooled exhaust manifold and turbo, are just some of the design features making this silent running and sturdy engine. The owner of a D5A TA benefits from many hours of trouble-free operation and improved comfort.

ECONOMICAL AND SERVICE FRIENDLY

Price is not the only concern when in vest ing in a new engine. As confi rmed by ma rine professionals, it is the operational costs, such as cost for fuel, spare parts, service and

maintenance, that makes the real difference in economy. The D5A TA is equipped with unit pumps that control the fuel distribution for each cylinder. Six-hole high-pressure injection nozzles optimize the fuel-air mixture. This improved combustion results in high thermal efficiency, low fuel consumption, reduced exhaust emissions, faster response to load variations and ease in maintenance. Easily accessible maintenance points and single side servicing contribute to the ease of servicing the engine. Liners of wet and replaceable type, inclined connecting rod caps and replaceable valve seats make even major maintenance possible to carry out onboard.

SAFELY SUPPORTED

Volvo Penta has a well-established, well-trained, network of authorized service dealers in more than 100 countries throughout the world. These service centers offer Genuine Volvo Penta Parts as well as skilled service personnel to help you protect your investment.

MEETING NEW EMISSION STAND-

The engine is approved for the EU IWW, CCNR2 and US EPA Tier 2 emission egulations.

TECHNICAL DATA

No. of cylinders and configuration in-line 4 Method of operating 4-stroke, direct-injected turbocharged diesel engine with aftercooler

Bore, mm (in.) 108 (4.25) Stroke, mm (in.) 130 (5.12) Displacement, I (in³) 4.76 (290) 17.6:1 Compression ratio Dry weight, kg (lb) 525 (1157)

Dry weight with reverse gear ZF280, kg (lb) 570 (1257) Ratings/rpm R2/2300 rpm R1/2300 rpm R1/1900 rpm ASTM-D975 1-D & 2-D, EN 590 or JIS KK 2204

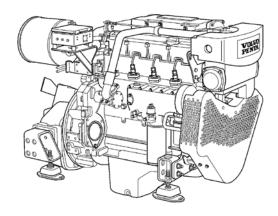
Recommended fuel to conform to

D5A TA

Crankshaft power, kW (hp) 118 (160) 102 (139) 89 (121) Max. torque, Nm (lbf.ft) @ 1500 rpm 579 (427) 490 (362) 490 (362) Specific fuel consumtion.

g/kWh (lb/hph) @ 2300 rpm 210 (0.340) 214 (0.347) g/kWh (lb/hph) @ 1900 rpm

203 (0.329)





TECHNICAL DESCRIPTION

ENGINE AND BLOCK

- Cylinder block, head and flywheel housing made of cast iron.
- Belt guard
- Combined 10" and 11,5" flywheel with SAE 3 housing

 - Nitrocarburized transmission gears
- Press-hardened crankshaft
- Forged aluminium pistons
- Cylinder liners of wet type

LUBRICATION SYSTEM

- Oil filler in valve cover
- Oil sump made of cast iron
- Manual oil drain pump
- Rotary lubrication oil pump
- Freshwater-cooled oil cooler
- Full flow oil filters of spin-on type - Closed crankcase ventilation system

- Mechanical governor with smoke limiter

- Unit pumps

FUEL SYSTEM

- Fuel feed pump

- Six-hole injectors

- COOLING SYSTEM Option for Keel Cooling system and Radiator Cooled System available as an option.
 Belt-driven freshwater pump
 Freshwater-cooled turbocharger and

- Fine fuel filter of spine-on type

exhaust manifold

OPTIONAL EQUIPMENT

ENGINE

- Flexible suspension for engine and reverse gear
- Combined 10"/11,5" flywheel with SAE 2 housing

LUBRICATION SYSTEM

- Shallow oil sump
- Twin oil filters, for remote mounting

FUEL SYSTEM

- Hand pump
- Jacketed fuel pipes
- Single or twin fuel/water separating pre filter
- Twin fuel filters, for remote mounting

EXHAUST SYSTEM

- Fully Atex Certified Exhaust Gas Cooling System as an option
- Exhaust elbow, wet
- Exhaust elbow, dry, with
- integrated flexible compensator
- Silencer, dry

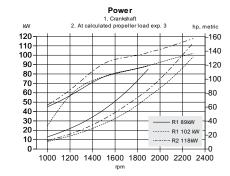
POWER TRANSMISSION

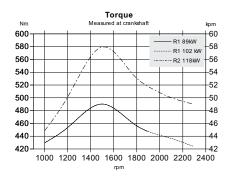
- PTO crankshaft front end, type stub shaft
- Hydraulic pump for steering and other duties

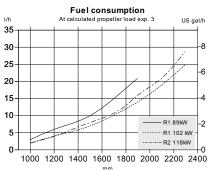
ELECTRICAL SYSTEM

Suitable Atex approved electrical systems available on request

VOLVO PENTA D5A TA

















Compliant as a component to ATEX 94/9/EC. Full ATEX upfit accessories available from Pyroban.

In cooperation with:





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

Engines illustrated may not be entirely identical to production standard engines.

Volvo Penta Oil&Gas Division

North America

M.G Bryan Equipment Company L.P. www.mgbryan.com

United Kingdom

Prior Diesel Ltd www.priordiesel.com

Power Torque www.powertorque.co.uk

Norway

J.Weiberg Gulliksen AS www.gulliksen.no

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