

VOLVO PENTA INDUSTRIAL DIESEL TAD720VE

124 kW (167 hp), crankshaft power acc. to ISO 3048

The TAD720VE is a powerful, reliable and economical Mercedes Diesel Engine.

Durability & low noise

Designed for easiest, fastest and most economical installation. Well-balanced to produce smooth and vibration-free operation with low noise level.

To maintain a controlled working temperature in cylinders and combustion chambers, the engine is equipped with piston cooling.

Low exhaust emissions

The state of the art, high-tech injection and charging system with low internal losses contributes to excellent combustion and low fuel consumption. The TAD720VE complies with EU Stage 2, EPA/CARB Tier 2 exhaust emission regulations.

Easy service & maintenance

Modern injection system, integrated oil cooler and all service points located on one side provides best possible access in an installation. Replaceable cylinder liners, valve guides and valve seats gives lower service and repair costs for the customer. Quality Volvo Penta support is available in more than 100 countries all over the world.

Technical description:

Engine and block

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperatures
- Deep forged steel connecting rods
- Crankshaft hardened bearing surfaces and liners for maximum load on main and big-end bearings
- Ringland trap compression rings for long service life
- Replaceable valve guides and valve seats
- Three PTO positions at flywheel end
- Lub system
- Pipehead housing with connection acc. to SAE 2
- Flywheel for flexible coupling and friction clutch
- Transport brackets
- Pulley for AC compressor

Lubrication system

- Full flow disposable spin-on oil filter, for easy high filtration



Features

- Compact design
- High power to weight ratio
- Emission compliant EU Stage 2, EPA/CARB Tier 2
- Proven optimized engine design
- A wide selection of optional equipment and power settings
- Mechanical or electronic governing with CAN-bus communication

- Rotary displacement oil pump driven by the crankshaft
- Deep center oil sump, 30° inclination
- Oil filter on valve cover
- Oil dipstick, right side, front
- Full flow integrated oil cooler, side-mounted

Fuel system

- Six hole fuel injection nozzles
- Direct injection unit, pump
- Mechanical or electronic governor with sensus limiter function
- Washable fuel prefilter with water separator
- Belt driven rotary low pressure fuel pump
- Fine fuel filter of disposable type
- Stop solenoid, electrically operated, 24 V

Intake and exhaust system

- Connection flange for exhaust line
- Turbo charger, control line with exhaust flange
- Closed crankcase ventilation
- Heater flange in charge air inlet (without power relay)

Cooling system

- Belt driven, maintenance-free coolant pump with high degree of efficiency
- Exhaust cooling with accurate coolant control through a water distribution duct in the cylinder block. Reliable disconnected with minimum pressure drop
- Cooling water pipe, inlet and outlet
- Fan hub
- Fan on separate bracket 200mm above crankshaft
- Quotation list 0900096

Electrical system

- 24V electrical system
- Alternator 165A, 1 2-4V, low belt
- Starter motor, Mexico, 5.5 kW/24 V, single pole
- SWCU (optional high altitude sensor) control and monitoring of oil pressure, coolant temp, coolant level, charge oil pressure, engine rpm and fuel compensation
- Engine wiring

**VOLVO
PENTA**

Volvo Penta Service Manual Tad720ve

A. T. Burgess



Volvo Penta Service Manual Tad720ve:

Volvo Penta (Seloc) Seloc,2008 This manual covers the topics that a factory service manual designed for factory trained mechanics and a manufacturer owner s manual designed more by lawyers than boat owners these days covers It will take you through the basics of maintaining and repairing your motor step by step to help you understand what the factory trained mechanics already know by heart Page 1 2 [VOLVO PENTA MD 5](#) Volvo Penta,2015-04-13 [VOLVO PENTA MD2010, MD2020, MD2030, MD2040](#) Volvo Penta,2014-03-02 **Volvo Penta Service & Overhaul Manual** Alan T. Burgess,1976 [VOLVO PENTA MD 11C, C, MD 17C, D](#) Volvo Penta,2014-03-01 [Volvo Penta MD2010, MD2020, MD2030, MD2040](#) N N,2012-05 Workshop Manual for Volvo Penta Marine Engines MD2010 MD2020 MD2030 MD2040 **Workshop Manual** Volvo Penta (Firm),1970 *Workshop Manual* Volvo Penta (Firm),1970 *Workshop Manual* ,1985 Pub no 77300424 [Volvo Penta Service and Overhaul Manual](#) A. T. Burgess,1994 *Workshop Manual* ,1984 **Seloc's Volvo Penta Stern Drive** Joan Coles,Clarence W. Coles,1984 **Volvo Penta Stern Drive Shop Manual 2001-2004** Penton Staff,2000-05-24 30GS 3 0L in line 4 cylinder 135 HP 43GL 4 3L V 6 160 HP 43GI 4 3L V 6 180 HP 43GXI 4 3L V 6 210 HP 50GL 5 0L V 8 220 HP 50GI 5 0L V 8 250 HP 50GXI 5 0L V 8 270 HP 57GS 5 7L V 8 225 HP 57GS 5 7L V 8 250 HP 57GSI 5 7L V 8 280 H **Service Manual, 2001, 2002, 2003** Volvo Penta (Firm),1984 *Service Mannual for Volvo-Penta Diesel Engines* Volvo Penta (Firm). Technical Publications Department,1960* Service manual for automotive version of D67C engine fitted in L485 truck [Volvo-Penta Stern Drives, 1992-93](#) Joan Coles,Clarence W. Coles,1998-03 SELOC Marine maintenance and repair manuals offer the most comprehensive authoritative information available for outboard inboard stern drive and diesel engines as well as personal watercraft SELOC has been the leading source of how to information for the marine industry since 1974 Designed and written to serve the needs of the professional mechanic do it yourself boat enthusiast instructor and student these manuals are based on actual teardowns done by Chilton Marine s editors authors in our on site facility Providing complete coverage on everything from basic maintenance to engine overhaul every manual features Simple to follow step by step illustrated procedures Hundreds of exploded drawings photographs and tables Troubleshooting sections accurate specifications and wiring diagrams Recognized and used by technical trade schools as well as the U S military Covers all Single SP and Duo Prop DP models powered by Volvo 4 cylinder engines Over 750 illustrations [Seloc's Volvo Penta Stern Drive](#) Joan Coles,Clarence Coles,1989 *Workshop Manual Aquamatic* ,1976 *Volvo Penta Stern Drives, 1992-03 Repair Manual* Kevin M. G. Maher,1998 **Volvo-Penta Stern Drives, 1968-1991** Nichols / Seloc,1998-03 SELOC Marine maintenance and repair manuals offer the most comprehensive authoritative information available for outboard inboard stern drive and diesel engines as well as personal watercraft SELOC has been the leading source of how to information for the marine industry since 1974 Designed and written to serve the needs of the professional mechanic do it yourself boat enthusiast instructor and student these manuals are based on actual teardowns done by Chilton

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