

VOLVO PENTA GENSET ENGINE

TAD1641GE

484 kW (658 hp) at 1500 rpm, 565 kW (768 hp) at 1800 rpm, acc. to ISO 3046

The TAD1641GE is a powerful, reliable and economical Generating Set Diesel Engine built on the dependable in-line six design.

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. The engine is also fitted with replaceable cylinder liners and valve seats/guides to ensure maximum durability and service life of the engine.

Low exhaust emission

The state of the art, high-tech injection and charging system with low internal losses contributes to excellent combustion and low fuel consumption.

The TAD1641GE complies with EU Stage 2 exhaust emission regulations.

Easy service & maintenance

Easily accessible service and maintenance points contribute to the ease of service of the engine.

Technical description

Engine and block

- Optimized cast iron cylinder block with optimum distribution of forces without the block being unnecessary heavy.
- Wet, replaceable cylinder liners
- Piston cooling for low thermal load on pistons and reduced ring temperature
- Tapered connecting rods to reduce risk of piston cracking
- Crankshaft induction hardened bearing surfaces and fillets with seven main bearings for moderate load on main and big-end bearings
- Nitrocarburized transmission gears for heavy duty operation
- Keystone top compression rings for long service life
- Viscous type crankshaft vibration damper
- Replaceable valve guides and valve seats
- Over head camshaft and four valves per cylinder equipped with camshaft damper to reduce noise and vibrations.

Lubrication system

- Full flow oil cooler
- Full flow disposable spin-on oil filters, for extra high filtration
- The lubricating oil level can be measured during operation (Standard dipstick only)
- Gear type lubricating oil pump, gear driven by the transmission



Features

- Maintained performance, air temp -40°C
- Cooling system (55°C)
- Fully electronic with Volvo Penta EMS 2
- Dual frequency switch (between 1500 rpm and 1800 rpm)
- High power density
- Emission compliant
- Low noise levels
- Gen Pac configuration

Fuel system

- Self de-aerating system. When replacing filters all fuel stays in the engine.
- Non-return fuel valve
- Electronic unit injectors
- Fuel prefilter with water separator and water-in-fuel indicator / alarm
- Gear driven low-pressure fuel pump
- Fine fuel filter with manual feed pump and fuel pressure switch
- Fuel shut-off valve, electrically operated

Cooling system

- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block. Reliable sleeve thermostat with minimum pressure drop
- Belt driven, maintenance-free coolant pump with high degree of efficiency

Turbo charger

- Efficient and reliable turbo charger
- Extra oil filter for the turbo charger

Electrical system

- Engine Management System 2 (EMS 2), an electronically controlled processing system which optimizes engine performance. It also includes advanced facilities for diagnostics and fault tracing
- The instruments and controls connect to the engine via the CAN SAE J1939 interface, either through the Control Interface Unit (CIU) or the Digital Control Unit (DCU). The CIU converts the digital CAN bus signal to an analog signal, making it possible to connect a variety of instruments. The DCU is a control panel with display, engine control, monitoring, alarm, parameter setting and diagnostic functions. The DCU also presents error codes in clear text.
- Sensors for oil pressure, oil temp, boost pressure, boost temp, coolant temp, fuel temp, water in fuel, fuel pressure and two-speed sensors. Crank case pressure, piston cooling pressure, oil level and air filter pressure drop sensors.
- Alternator 24V / 50A

**VOLVO
PENTA**

Volvo Penta Tad1641ge Service Manual

Joan Coles, Clarence W. Coles



Volvo Penta Tad1641ge Service Manual:

Volvo Penta Service & Overhaul Manual Alan T. Burgess,1976 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 MD2010, MD2020, MD2030, MD2040 Volvo Penta,2014-03-02 VOLVO PENTA MD 5 Volvo Penta,2015-04-13

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Volvo Penta MD2010, MD2020, MD2030, MD2040 N N,2012-05 *Workshop Manual for Volvo Penta Marine Engines*
MD2010 MD2020 MD2030 MD2040 **Volvo Penta Service and Overhaul Manual** A. T. Burgess,1994 Workshop Manual,1985 Pub no 77300424 Service Manual, 2001, 2002, 2003 Volvo Penta (Firm),1984 **Workshop Manual**,1984 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 *Volvo Service Manual* Volvo, Aktiebolaget,1962 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 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 Seloc's Volvo Penta Stern Drive Joan Coles,Clarence Coles,1989 **Volvo Penta Stern Drives, 1992-03 Repair Manual** Kevin M. G. Maher,1998 *Workshop Manual* *Aquamatic* ,1976

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