

## VOLVO PENTA GENSET ENGINE

# TAD1631GE

1500 rpm, 478 kW (650 hp)

1800 rpm, 546 kW (743 hp)

### Reliable & powerful

The TAD1631GE is a powerful, reliable and economical Generating Set diesel built on the dependable in-line six design.

### Durability & low noise

Designed for the 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 TAD1631GE complies with EPA/CARB Tier 1 and TA-Luft 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 unnecessarily heavy.
- Wet, replaceable cylinder liners with flame barrier that protects the cylinder head gaskets against high temperatures.
- Piston cooling for low piston temperature and reduced ring temperature
- Tapered connecting rods to reduce risk of piston cracking
- Nitrocarburized crankshaft with seven bearings for moderate load on main bearings
- Nitrocarburized transmission gears for heavy duty operation
- Keystone top compression rings for long service life
- Viscous type crankshaft vibration dampers to withstand single bearing alternator torsional vibrations
- Replaceable valve guides and valve seats



### Features

- Maintained performance, air temp 40°C, altitude 1000m
- Tropical cooling system (55°C)
- Guaranteed power output 0 to +2%
- EL Governing (G4C-ACB275)
- Low exhaust emissions
- Low noise levels
- Gen Pac configuration

#### Lubrication system

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

#### Fuel system

- Bosch fuel injection system including accurate electronic governor,
- Non-return fuel valve
- Twin fuel filters of disposable type,
- Gear type lubricating oil pump, gear driven by the transmission,
- Fine fuel filter with manual feed pump and fuel pressure switch

#### Turbo charger

- Efficient and reliable turbo charger

#### Cooling system

- Air to air intercooler
- Gear driven, maintenance-free coolant pump with high degree of efficiency
- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block. Reliable sleeve thermostat with minimum pressure drop
- Automatic fan drive belt tensioner.

#### Electrical system

- Electronic speed governor system controls the engine speed in droop or isochronous mode. The system includes a control unit, speed sender and electro-magnetic actuator (ACB275)

# VOLVO PENTA

# Volvo Tad1631ge Engine Service Manual

**Volvo Penta (Firm). Technical  
Publications Department**



## **Volvo Tad1631ge Engine Service Manual:**

*Volvo Service Manual* Volvo, Aktiebolaget, 1962      *Volvo Service Manual* Volvo, Aktiebolaget, 1978      **Volvo Service Manual Repair Instructions**, 1975      *Trucks Service Manual* Aktiebolaget Volvo., 1974      *Engine D 100, TD 100*, 1974

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*VOLVO PENTA MD 5* Volvo Penta, 2015-04-13      *Volvo Service* Volvo, Aktiebolaget, 1973 Covers models P544 P210 P120 P1800 1960 1968 with B16A B18D engines      *Volvo Volvo*,      **Seloc's Volvo Penta Stern Drive** Joan Coles, Clarence W. Coles, 1984

**Volvo S40 and V50 Petrol and Diesel Service and Repair Manual** Martyn Randall, 2008 S40 Saloon V50 Estate inc special limited editions Does NOT cover Classic T5 or AWD four wheel drive models or facelifted range introduced July 2007 Petrol 1.8 litre 1798cc 2.0 litre 1999cc 2.4 litre 2435cc Does NOT cover 1.6 litre or 2.5 litre petrol engines Turbo Diesel 2.0 litre 1988cc Does NOT cover 1.6 litre or 2.4 litre diesel engines

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