

VOLVO PENTA GENSET ENGINE

TAD740GE

1500 rpm, 242kW (329 hp) – 1800 rpm, 251kW (341 hp)

The TAD740GE is a powerful, reliable and economical Generating Set diesel 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 TAD740GE complies with 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 for 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 (35°C)
- Guaranteed power output 0 to +2%
- EL Governing (QAC-ACD175)
- 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 (ACD175)

**VOLVO
PENTA**

Tad740ge Workshop Manual

SA Adler



Tad740ge Workshop Manual:

Tad740ge Workshop Manual Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Tad740ge Workshop Manual**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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