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 unnessanily 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
- Reptaceable vaive guides and vaive seats.



Features

- Maintained performance, air temp 40°C, altitude 1000m
- Tropical cooling system (55°C)
- Guaranteed power output 0 to +216
- El. Governing (GAC-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

:Fixed synthemy

- 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 beit tensioner.

Electrical system

 Electronic speed governor system controls the engine speed in droop or isotronous mode. The system includes a control unit, speed sender and electro-magnetic actuator (ACD 175)



Tad740ge Workshop Manual

John Harold Haynes, Andrew Kirk Legg

Tad740ge Workshop Manual:

Workshop Manual Type 2632 Daimler-Benz.1972 Toyota Starlet Owners Workshop Manual John Harold Havnes, Andrew Kirk Legg, 1985 Workshop Manual ,1984 Workshop Manual Type 2624 Daimler-Benz, 1967 **L.D. 260-360** British Leyland (Austin-Morris). Service Division, 1971 Workshop Manual Type L & LA1513 Workshop Manual for Model 45 Automatic Transmission Chrysler United Kingdom Limited, 1973 Daimler-Benz. Workshop Manual, Austin 3 Litre British Leyland (Austin-Morris) Limited, 1971 Workshop Manual; Tractors, 780-780DT Fiat (Firm), Turin (Italy), 1976 **Austin A 40** Austin. Workshop Manual for Austin 4 X 4 Gipsy British Motor Corporation, 1958 Ford D Series Truck Workshop Manual ,1972 **Toyota Corona Owners Workshop** Manual John Harold Haynes, Peter Ward, 1977 Workshop Manual for the 1 1/2 Ton, 2 Ton and 3 Ton 'walk-thru' **Models** .1960* **Workshop Manual TF Series** Isuzu Jidōsha Kabushiki Kaisha,1989* J4 Vehicles Workshop Manual British Leyland Motor Corporation. Austin Morris Group, 1973 Workshop Manual ,1965* A40, Mk. I and Mk. 2 Saloon and Countryman ,1968 Datsun Owners Workshop Manual John Harold Haynes, Ian Coomber, 1979 Workshop Manual for Austin 152 Vehicles Austin Motor Company, Ltd,1956

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