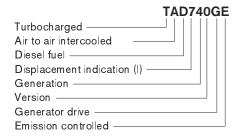
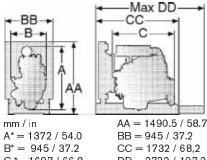
TAD740GE Gen Set Engine - Gen Pac



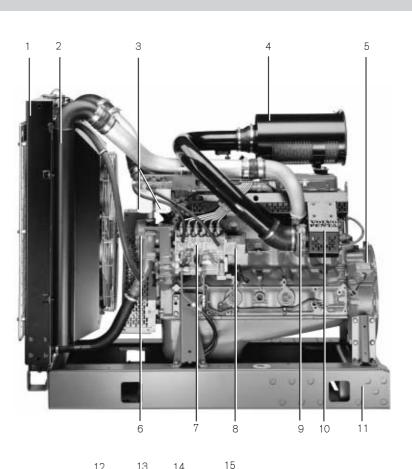


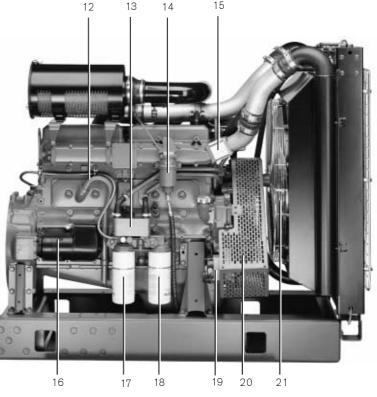
C*=1697/66.8 * Incl.radiator and intercooler

DD = 2722 / 107.2

Gen Pac - Gen Set Engine mounted on an expandable base frame. Complete unit with engine, radiator, radiator core guard, fan, fan and belt guard providing reduced delivery time and inatallation cost and simplified transportation.

- 1. Tropical radiator
- 2. Air to air intercooler
- 3. Twin fuel filters of throwaway type
- 4. Air filter
- 5. Flywheel housing SAE2
- 6. Gear driven coolant pump
- 7. Fuel injection pump
- 8. Electric speed governor
- 9. Turbocharger
- 10. Heat guard
- 11. Expandable base frame (optional)
- 12. Crankcase ventilation
- 13. Oil cooler
- 14. Oil drain pump (optional)
- 15. Inlet manifold heater
- 16. Starter motor
- 17. Full-flow oil filter of spin-on type
- 18. By-pass oil filter of spin-on type
- 19. Alternator
- 20. Belt guard
- 21. Fan guard





VOLVO PENTA

TAD740GE

Volvo Penta reserves the right to make changes at any time, without notice, as to technical data, prices, materials, standard equipment,specifications and models, and to discontinue models.

Technical Data

General

General In-line four-stroke diesel engine with direct injection Turbocharged and air to air intercooled Rotation direction, anti-clockwise viewed towards flywheel Dry weight, kg/lb Engine only*) 901 / 1987 Gen Pac 1128 Wet weight, kg/lb Engine only*) 964 / 2126 Gen Pac 1196 *) Including radiator and intercooler		Number of cylinders Displacement, total Firing order Bore Stroke Compression ratio	6 7.28 liter / 445 in ³ 1-5-3-6-2-4 107 mm / 4.21 in 135 mm / 5.31in 17.2:1
TAD740GE	Speed, rpm	1500	1800
Performance Prime Power with fan Continuous Standby Power with fan Maximum Standby Power with fan Mean piston speed Effective mean pressure at Prime Power Max combustion pressure at Prime Power	Test no. kW / hp kW / hp kW / hp m/s / ft/sec MPa / psi MPa / psi	24001183 217 / 295 217 / 295 239 / 325 6.5 / 21.6 2.5 / 362 16.3 / 2360	24001190 222 / 302 222 / 302 245 / 333 7.8 / 25.6 2.2 / 318 15.8 / 2287
Lubrication system Lubricating oil consumption at Prime Power Maximum Standby Power Oil system capacity including filters Oil change intervals / specifications, VDS-2 VDS, ACEA E3 ACEA E1, E2, API CD, CF, CF-4, CG-4	liter/h / US ga liter/h / US ga liter h h h	ll/h 0.05 / 0.013 2 6i 4i	0.05 / 0.013 0.06 / 0.016 9 00 00 00
Fuel system Specific fuel consumption at 25% of Prime Power 50% of Prime Power 75% of Prime Power 100% of Prime Power Specific fuel consumption at 25% of Maximum Standby Power 50% of Maximum Standby Power 100% of Maximum Standby Power	g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp g/kWh / lb/hp	h 200 / 0.324 h 198 / 0.321 h 200 / 0.324 h 219 / 0.355 h 200 / 0.324 h 200 / 0.324 h 200 / 0.324	230 / 0.373 205 / 0.322 199 / 0.323 200 / 0.324 230 / 0.373 203 / 0.329 199 / 0.323 202 / 0.328
Intake and exhaust system Air consumption at Prime Power (at 27 °C) Maximum Standby Power (at 27 °C) Max allowable air intake restriction Heat rejection to exhaust at Prime Power Maximum Standby Power Exhaust gas temperature after turbine at Prime Power Maximum Standby Power Max allowable back-pressure in exhaust line Exhaust gas flow at Prime Power Maximum Standby Power	m ³ /min / cfm m ³ /min / cfm kPa / In wc kW / BTU/mir kW / BTU/mir °C / °F °C / °F kPa / In wc m ³ /min / cfm m ³ /min / cfm	14.7 / 519 15.6 / 551 5 / 160 / 9099 180 / 10237 525 / 977 540 / 1004	17.6 / 622 18.6 / 657 20.1 164 / 9327 184 / 10464 470 / 878 485 / 905 / 40 43.0 / 1519 46.3 / 1653
Cooling system Heat rejection radiation from engine at Prime Power Maximum Standby Power Heat rejection to coolant at Prime Power Maximum Standby Power Fan power consumption	kW / BTU/mir kW / BTU/mir kW / BTU/mir kW / BTU/mir kW / hp	n 15/ n 99/	737 850 5630 110 / 6256 14 / 19

Power Standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ/kg (18360 BTU/lb) and a density of 0.84 kg/liter (7.01 lb/US gal), also where this involves a deviation from the standards. Power output guaranteed within 0 to $\pm 2\%$ att rated ambient conditions at delivery. Ratings are based on ISO 8528.

Engine speed governing in accordance with ISO 3046/IV, class A1 and ISO 8528-5 (G3 with electronic speed governor)

Exhaust emissions.

The engine exhaust emissions complies with EPA, CARB and TA-luft regulations.

Rating Guidelines

PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability is available for this rating.

CONTINUOUS STANDBY POWER rating corresponds to ISO Power. It is applicable for supplying standby electrical power at variable load for an unlimited number of hours in the event of normal utility power failure. A 10 % overload capability is available for this rating.

MAXIMUM STANDBY POWER rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating.



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