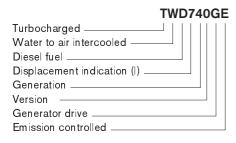
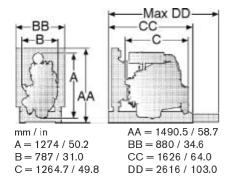
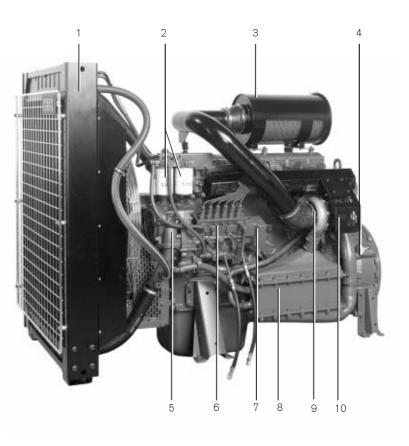
TWD740GE Gen Set Engine - Gen Pac

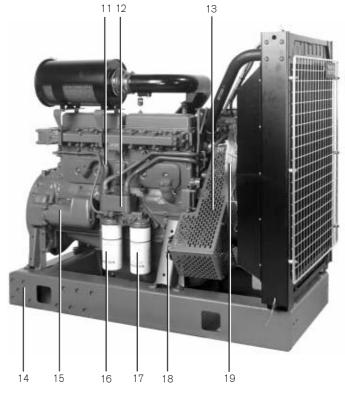




Gen Pac - Gen Set Engine mounted on an expandable base frame. Complete unit with engine, radiator, radiator core guard, fan, fan and belt guard providing reduced delivery time and inatallation cost and simplified transportation.

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





VOLVO

TWD740GE

Technical Data

General				0	
In-line four-stroke diesel engine with direct inject	ction		Number of cylinders	6 R 00 liter (445 in ³	
Turbocharged and water to air intercooled			Displacement, total	7.28 liter / 445 in ³	
Rotation direction, anti-clockwise viewed towards flywheel			Firing order	1-5-3-6-2-4	
Dry weight, kg/lb Engine only 795 / 1753	Gen Pac 1095 /	0414	Bore Stroke	107 mm / 4.21 in 135 mm / 5.31in	
Dry weight, kg/lb Engine only 795 / 1753 Wet weight, kg/lb Engine only 835 / 1841	Gen Pac 1095 / Gen Pac 1158 /		Compression ratio	17.2:1	
TWD740GE	Gent de 11007	Speed, rpm	1500	1800	
		• • •			
Performance		Test no.	24001179	24001169	
Prime Power with fan		kW / hp	178 / 242	201 / 273	
Continuous Standby Power with fan		kW / hp	178 / 242	201 / 273	
Maximum Standby Power with fan		kW / hp	196 / 267	222 / 302	
Mean piston speed		m/s / ft/sec	6.5 / 21.6	7.8 / 25.6 / 290	
Effective mean pressure at Prime Power		MPa / psi MPa / psi	2.0 14.3 / 2084	14.2 / 2069	
Max combustion pressure at Prime Power		MPa / psi	14.3 / 2004	14.2/2009	
Lubrication system Lubricating oil consumption at Prime Power		liter/h / US ga	.l/h 0.03 / 0.008	0.05 / 0.013	
Maximum Standby Power		liter/h / US ga		0.06 / 0.016	
Dil system capacity including filters		liter		29	
Dil change intervals / specifications, VDS-2		h	600		
VDS, ACEA E3		h		100	
		h		200	
Fuel system					
Specific fuel consumption at					
25% of Prime Power		g/kWh / lb/hp		247 / 0.400	
50% of Prime Power		g/kWh / lb/hp		218 / 0.353	
75% of Prime Power		g/kWh / lb/hp		207 / 0.335	
100% of Prime Power		g/kWh / lb/hp	h 203 / 0.329	207 / 0.335	
Specific fuel consumption at					
25% of Maximum Standby Power		g/kWh / lb/hp		246 / 0.399	
50% of Maximum Standby Power		g/kWh / lb/hp		213 / 0.345	
75% of Maximum Standby Power		g/kWh / lb/hp		207 / 0.335	
100% of Maximum Standby Power		g/kWh / lb/hp	h 203 / 0.329	208 / 0.337	
ntake and exhaust system		3,		101/500	
Air consumption at Prime Power (at 27 °C)		m ³ /min / cfm	11.6 / 410	16.1 / 569	
Maximum Standby Power (at 27 °C)		m ³ /min / cfm	12.5 / 441	17.2 / 607	
Aax allowable air intake restriction		kPa / In wc		20.1	
Heat rejection to exhaust at Prime Power		kW / BTU/mir		169 / 9582	
Maximum Standby Power	Power	kW / BTU/mir		190 / 10773	
Exhaust gas temperature after turbine at Prime	Fower	°C / °F °C / °F	525 / 977 540 / 1004	528 / 982 555 / 1031	
Maximum Standby Power		С/г kPa / In wc		/ 40	
Aax allowable back-pressure in exhaust line Exhaust gas flow at Prime Power		m ³ /min / cfm	31.0 / 1095	39.3 /1388	
Maximum Standby Power		m ³ /min / cfm	33.5 / 1183	42.8 / 1511	
•			00.07 1100	72.07 1011	
Cooling system	lowor		11/60/	12 / 727	
Heat rejection radiation from engine at Prime P Maximum Standby Power	owei	kW / BTU/mir kW / BTU/mir		13 / 737	
Heat rejection to coolant at Prime Power		kW / BTU/mir		14 / 794 123 / 6995	
Maximum Standby Power		kW / BTU/mir		134 / 7621	
Fan power consumption		kW / hp	8/11	14 / 19	
		Kww / IIP	0/11	14/13	

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.



AB Volvo Penta SE-405 08 Göteborg, Sweden