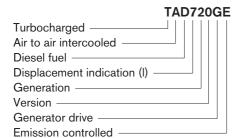
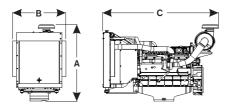
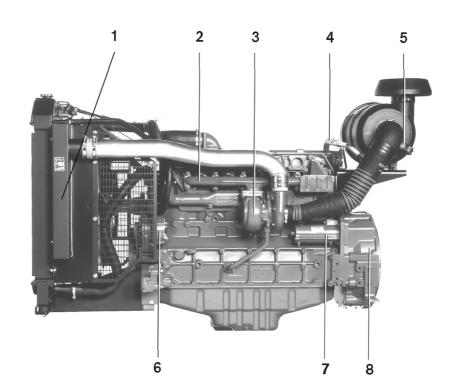
TAD720GE

Gen Set Engine

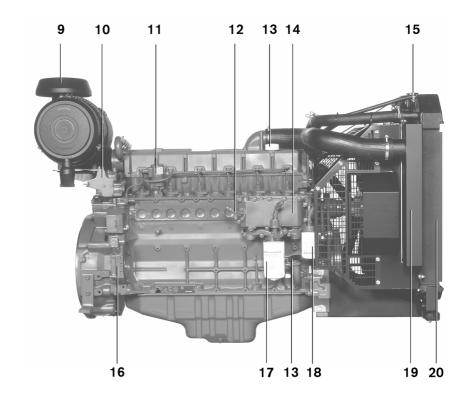




mm / in A = 1240 / 48.8B = 866 / 39.1 C = 1881 / 74.0



- 1. Charged air to cooler
- 2. Exhaust manifold
- 3. Turbocharger
- 4. Closed loop crank case breather system
- 5. Air restriction indicator
- 6. Alternator
- 7. Starter motor
- 8. Flywheel housing SAE 2
- 9. Air filter
- 10. Speed governor
- 11. Stop solenoid
- 12. Coolant heater (option)
- 13. Oil filling14. Oil cooler
- 15. Radiator cap16. Engine transmission with PTO17. Oil filter
- 18. Fuel filter
- 19. Intercooler
- 20. Radiator





TAD720GE

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. The engine illustrated may not be entirely identical to production standard engines.

Technical Data

General

Turbocharged and ai	sel engine with direct injection r to air intercooled nti-clockwise viewed towards f Engine incl. cooling system Engine incl. cooling system	•	6 Displacement, tota Firing order Bore Stroke Compression ratio	1-5-3-6-2-4 108 mm / 4.25 in 130 mm / 5.12in	
TAD720GE		Speed, r	om 1500	1800	
Performance					
Prime Power without fan		kW / hp	140.0 / 190.4	149.0 / 202.6	
Standby Power without fan		kW / hp	153.0 / 208.0	163.0 / 221.0	
Fan power consumpt	tion				
Standby cooling system		kW / hp	3.8 / 5.2	6.6 / 9.0	
Tropical cooling system		kW / hp	8.2 / 11.1	9.2 / 12.5	
Mean piston speed		m/s / ft/s	ec 6.5 / 21.3	7.8 / 25.6	
Effective mean pressure at Prime Power		MPa / ps		1.5 / 218	
Max combustion pressure at Prime Power		MPa / ps		1 3.0 / 1885	
Total mass moment of inertia, J (mR²)		kgm / lbft		3.09 / 73.3	
Lubrication system					
Lubricating oil consumption at Standby Power		liter/h / U	S gal/h 0.1 / 0.02	0.1 / 0.02	
Oil system capacity including filters		liter / US		0 / 5.3	
Oil change interval		h		500	
Minimum quality Al	PI-CF				
Fuel system					
Specific fuel consum	ption at				
50% of Prime Power		g/kWh / I	b/hph 204 / 0.330	215 / 0.348	
75% of Prime Power		g/kWh / I	b/hph 198 / 0.321	205 / 0.332	
100% of Prime Power		g/kWh / I	b/hph 197 / 0.319	203 / 0.329	
Intake and exhaust	system				
Air consumption					
at Standby Power (at 25 °C)		m³/h / cu	.ft/h 608 / 21472	830 / 29311	
Max allowable air intake restriction		kPa / In w	/C 3	3 / 12	
Heat rejection to exh	aust				
at Standby Power		kW / BTL	J/min 109 / 6199	121 / 6881	
Exhaust gas tempera	ture after turbine				
at Standby Power		°C / °F	476 / 914	433 / 837	
Max allowable back-pressure in exhaust line		kPa / In w	/c 5 / 20	7 / 28	
Exhaust gas flow					
at Standby Power		m³/min /	cfm 26.7 / 943	31.3 / 1105	
Cooling system					
Heat rejection radiation from engine at Standby Power		wer kW / BTU	J/min 18.4 / 1046	19.6 / 1115	
		wei kw/bic	7711111		
Heat rejection to coo	lant at Standby Power	kW / BTU		84.9 / 4828	
Heat rejection to coo Fan power consumpt	lant at Standby Power tion				
Heat rejection to coo	olant at Standby Power tion ystem				

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 +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)

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. STANDBY POWER rating corresponds to ISO Standard Fuel

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.



Exhaust emissions.

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

AB Volvo Penta SE-405 08 Göteborg, Sweden