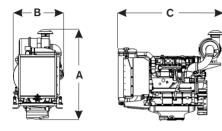
VOLVO PENTA GENSET ENGINE IGF 570

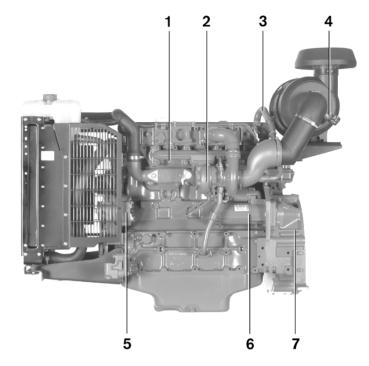
1500 rpm, 85 kW (116 hp) - 1800 rpm 89 kW (121 hp)

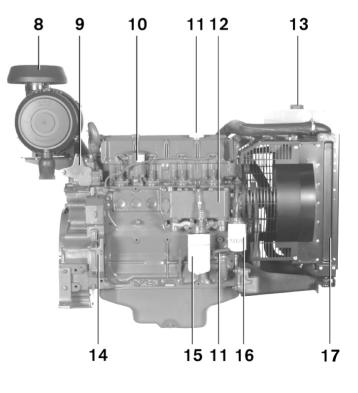
TD520GE	TD520GE		
Turbocharged			
Diesel fuel			
Displacement indication (I)			
Generation			
Version			
Generator drive			
Emission controlled —	J		



- A = 1171 / 46.1 B = 664 / 26.1
- C = 1392 / 54.8
 - 1. Exhaust manifold
 - 2. Turbocharger
- 3. Closed loop crank case breather system4. Air restriction indicator
- 5. Alternator
- 6. Starter motor
- 7. Flywheel housing SAE 3
- 8. Air filter

- 8. Air filter
 9. Speed governor
 10. Stop solenoid
 11. Oil filling
 12. Oil cooler
 13. Exp. tank with filler cap
 14. Engine transmission with PTO
 15. Oil filter
- 15. Oil filter
- 16. Fuel filter
- 17. Radiator







Technical Data

General				
	sel engine with direct injection	n	Number of cylinders	4
In-line four-stroke diesel engine with direct injection Turbocharged and air to air intercooled			Displacement, total	4.76 liter / 290 in ³
Rotation direction, anti-clockwise viewed towards flywheel			Firing order	1-3-4-2
riotation direction, a		nywneer	Bore	108 mm / 4.25 in
Dry weight, kg / lb Engine incl. coolingsyste		550 / 1213	Stroke	130 mm / 5.12 in
Wet weight, kg / lb	Engine incl. coolingsystem	580 / 1279	Compression ratio	17.5:1
	Engine inci. coolingsystem	56071279	Compression ratio	17.5.1
TD520GE		Speed, rpm	1500	1800
Performance				
Prime Power without fan		kW / hp	77.5 / 105.4	81.5 / 110.8
Standby Power with fan		kW / hp	85.0 / 116.0	89.0 / 121.0
Fan power consump	tion			
Standard cooling system		kW / hp	2.5 / 3.4	4.3 / 5.8
Tropical cooling system		kW / hp	2.5 / 3.4	4.3 / 5.8
Mean piston speed		m/s / ft/sec	6.5 / 21.3	7.8 / 25.6
Effective mean pressure at Standby Power		MPa / psi	1.4 / 203	1.2 / 174
Max combustion pressure at Prime Power		MPa / psi	11.2 / 1624	11.3 / 1639
Total mass moment of		kgm / lbft ²	1.43 / 33.8	11.07 1000
	,			
Lubrication system				
Lubricating oil consu	mption			
at Prime Power		liter/h / US gal/h	0.065 /0.017	0.069 / 0.018
Oil system capacity including filters		liter / US gal	13 / 3.4	
Fuel system				
Specific fuel consum	notion at			
50% of Prime Power		g/kWh / lb/hph	213 / 0.345	223 / 0.361
75% of Prime Power		g/kWh / lb/hph	208 / 0.337	217 / 0.352
			213 / 0.345	217 / 0.332
100% of Prime Power		g/kWh / lb/hph	213 / 0.345	215 / 0.348
Intake and exhaust		34 4 64		
Air consumption at Standby Power (at 25 °C)		m ³ /h / cu.ft/h	285 / 10065	346 / 12219
Max allowable air intake restriction		kPa / In wc	3/12	
Heat rejection to exhaust at Standby Power		kW / BTU/min	71.1 / 4078	77.0 / 4379
Exhaust gas tempera	ture after turbine			
at Standby Power		°C / °F	610 / 1130	530 / 986
Max allowable back-pressure in exhaust line		kPa / In wc	3 / 12	5 / 20
Exhaust gas flow at Standby Power		m³/min / cfm	15.4 / 544	17.5 / 618
Cooling system				
Heat rejection radiati	on from engine			
at Standby Power		kW / BTU/min	12.7 / 722	13.7 / 779
Heat rejection to coolant			12.1 / 122	10.11110
		WALL DTIL	527/2020	55 7 / 2169
at Standby power		kW / BTU/min	53.7 / 3020	55.7 / 3168
Fan power consumption				
standard and trop	ical cooling system	kW / hp	2.5 / 3.4	4.3 / 5.8

Power Standards

Rating Guidelines

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)

Exhaust emissions.

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

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 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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