# **VOLVO PENTA INDUSTRIAL DIESEL**

# TAD732GE

179 kW (243 hp) at 1500 rpm, 197 kW (268 hp) at 1800 rpm



The TAD732GE is a powerful, reliable and economical Generating Set Diesel Engine 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 TAD732GE complies with EU Stage 2 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
- Piston cooling for low piston temperature and reduced ring temperature
- Drop forged steel connecting rods
- Crankshaft hardened bearing surfaces and fillets for moderate load on main and bigend bearings
- Keystone top compression rings for long service life
- Replaceable valve guides and valve seats
- Three PTO positions at flywheel end
- Lift eyelets
- Flywheel housing with connection acc. to SAE 2
- Flywheel for flexible coupling and friction clutch
- Transport brackets

#### Lubrication system

- Full flow disposable spin-on oil filter, for extra high filtration
- Rotary displacement oil pump driven by the crankshaft
- Deep centre oil sump, 30° inclination
- Oil filler on top



#### **Features**

- Electronic governing, EDC 4
- CAN bus communication
- Compact design
- High power to weight ratio
- Emission compliant
- Noise optimized engine design
- A wide selection of optional equipment and power settings
- Oil dipstick, short in front
- Integrated full flow oil cooler, side-mounted

# Fuel system

- Six hole fuel injection nozzles
- Direct injection unit pumps
- Electronic governor with smoke limiter function
- Washable fuel prefilter with water separator
- Rotary low-pressure fuel pump
- Fine fuel filter of disposable type

#### Intake and exhaust system

- Connection flange for exhaust line
- Turbo charger, centre low with exhaust flange
- Closed crankcase ventilation
- Heater flange in charge air inlet (without power relay)

# Cooling system

- Belt driven, maintenance-free coolant pump with high degree of efficiency
- Efficient cooling with accurate coolant con-

- trol through a water distribution duct in the cylinder block
- Reliable thermostat with minimum pressure drop
- Cooling water pipe, inlet and outlet
- Belt driven coolant pump, ratio 1.0:1
- Fan hub
- Fan on separate bracket 292mm above crankshaft
- Suction fan Ø 600 mm

# Electrical system

- 24V electrical system
- Alternator 1x55A / 24V, low left
- Starter motor, Melco, 5.5kW / 24V, single pole
- ECU (without high altitude sensor) control and monitoring of oil pressure, coolant temperature, coolant level, charge air pressure, engine rpm and fuel temperature compensation
- Engine wiring



# **Technical Data**

General		
Engine designation		TAD732GE
No. of cylinders and configuration		
Method of operation		4-stroke
Bore, mm (in.)		108 (4.25)
Stroke, mm (in.)		130 (5.12)
Displacement, I (in <sup>3</sup> )		7.15 (436.3)
Compression ratio	·····	18:1
Dry weight, with cooling package, kg	(lp)	785 (1731)
Wet weight, with cooling package, kg	g (lb)	826 (1821)
Daufaumanaa	1500	1000
Performance	1500 rpm	1800 rpm
with fan, kW (hp) at:	160 (010)	176 (040)
Prime Power	160 (218) 179 (243)	176 (240)
Max Standby Power	179 (243)	197 (268)
Lubrication system	1500 rpm	1800 rpm
Oil consumption, liter/h (US gal/h) at	1500 rpm	1000 10111
Prime Power	0.08 (0.021)	0.09 (0.024)
Max Standby Power	0.08 (0.021)	
Oil system capacity incl filters, liter		
On system capacity inci liners, iner		
Fuel system	1500 rpm	1800 rpm
Specific fuel consumption at:	1000 ipiii	100016
Prime Power, g/kWh (lb/hph)		
25 %	270 (0.438)	260 (0.422)
50 %	219 (0.354)	225 (0.364)
75 %	213 (0.345)	217 (0.352)
100 %	213 (0.345)	218 (0.354)
Max Standby Power, g/kWh (lb/hph)	210 (0.010)	210 (0.001)
25 %	234 (0.379)	244 (0.395)
50 %	1 1	1 1
	215 (() 348)	220 (0.356)
	215 (0.348)	220 (0.356) 216 (0.350)
75 %	212 (0.344)	216 (0.350)
75 % 100 %	212 (0.344) 214 (0.347)	216 (0.350) 220 (0.356)
75 % 100 % Intake and exhaust system	212 (0.344) 214 (0.347) 1500 rpm	216 (0.350)
75 % 100 %	212 (0.344) 214 (0.347) 1500 rpm	216 (0.350) 220 (0.356)
75 % 100 % Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power	212 (0.344) 214 (0.347) 1500 rpm	216 (0.350) 220 (0.356) 1800 rpm
75 % 100 % Intake and exhaust system Air consumption at 27°C, m³/min (cfr	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509)
75 % 100 % Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509)
75 % 100 % Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction,	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc)	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust,	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at:	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509) 3.5 (14.1)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after	212 (0.344) 214 (0.347) <b>1500 rpm</b> n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power	212 (0.344) 214 (0.347) <b>1500 rpm</b> n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power	212 (0.344) 214 (0.347) <b>1500 rpm</b> n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at:	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc)	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at:	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125) 35.1 (1240)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power Max Standby Power Cooling system	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power Cooling system Heat rejection radiation from engine,	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125) 35.1 (1240)	216 (0.350) 220 (0.356) <b>1800 rpm</b> 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power Cooling system Heat rejection radiation from engine, kW (BTU/min)	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125) 35.1 (1240) 1500 rpm	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476) 1800 rpm
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power  Cooling system Heat rejection radiation from engine, kW (BTU/min) Prime Power	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125) 35.1 (1240) 1500 rpm 17 (972)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476) 1800 rpm 20 (1109)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power  Cooling system Heat rejection radiation from engine, kW (BTU/min) Prime Power Max Standby Power	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125) 35.1 (1240) 1500 rpm 17 (972) 19 (1086)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476) 1800 rpm
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power  Cooling system Heat rejection radiation from engine, kW (BTU/min) Prime Power Max Standby Power Heat rejection to coolant kW (BTU/m	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125) 35.1 (1240) 1500 rpm 17 (972) 19 (1086) nin)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476) 1800 rpm 20 (1109) 22 (1245)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power  Cooling system Heat rejection radiation from engine, kW (BTU/min) Prime Power Max Standby Power Heat rejection to coolant kW (BTU/m Prime Power	212 (0.344) 214 (0.347)  1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1)  140 (7945) 156 (8872)  529 (984) 542 (1008) 5 (20.1)  31.9 (1125) 35.1 (1240)  1500 rpm  17 (972) 19 (1086) nin) 70 (3981)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476) 1800 rpm 20 (1109) 22 (1245) 76 (4316)
75 % 100 %  Intake and exhaust system Air consumption at 27°C, m³/min (cfr Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/min) at: Prime Power Max Standby Power Exhaust gas temperature after turbine, °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in exhaust line, kPa (In wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power  Cooling system Heat rejection radiation from engine, kW (BTU/min) Prime Power Max Standby Power Heat rejection to coolant kW (BTU/m	212 (0.344) 214 (0.347) 1500 rpm n): 11.4 (403) 12.4 (438) 3.5 (14.1) 140 (7945) 156 (8872) 529 (984) 542 (1008) 5 (20.1) 31.9 (1125) 35.1 (1240) 1500 rpm 17 (972) 19 (1086) nin)	216 (0.350) 220 (0.356) 1800 rpm 14.42 (509) 14.42 (509) 3.5 (14.1) 161 (9173) 181 (10310) 495 (923) 515 (959) 7 (28.1) 38.3 (1353) 41.8 (1476) 1800 rpm 20 (1109) 22 (1245)

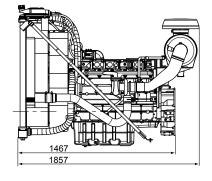
Standard equipment	
Engine	
Automatic belt tensioner	
Lift eyelets	•
Flywheel	
Flywheel housing with conn. acc. to SAE 2	•
Flywheel 10" and 11.5" disc	•
Vibration dampers	•
Engine suspension	
Fixed front suspension	•
Lubrication system	
Oil dipstick	•
Full-flow oil filter of spin-on type	•
By-pass oil filter of spin-on type	•
Oil cooler, side mounted	•
Low noise oil sump	•
Fuel system	
Fuel filters of disposable type	•
Electronic unit injectors	•
Pre-filter with water separator	•
Intake and exhaust system	
Air filter with replaceable paper insert	•
Air restriction indicator	•
Air cooled exhaust manifold	•
Connecting flange for exhaust pipe	•
Exhaust flange with v-clamp	•
Turbo charger, low right side	•
Crankcase ventilation, open	•
Cooling system	_1)
Tropical radiator incl intercooler	
Gear driven coolant pump Fan hub	•
Thrust fan	_1)
Fan guard	_1)
Belt guard	_1)
Control system	- )
Engine Management System (EMS) with CAN-bus	
interface SAE J1939 and stand alone interface	
Alternator	
Alternator 60A / 24 V	
Starting system	
Starter motor, 5.5kW, 24 V	•
Connection facility for extra starter motor	•
Instruments and senders	
Temp and oil pressure for automatic	
stop/alarm 103°C	•
Fueine Deakine	

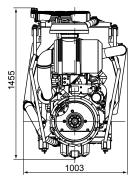
1) must be ordered, se order specification

- optional equipment or not applicable

• included in standard specification

Engine Packing Plastic wrapping





Note! Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice.

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

#### 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 class G3

#### **Exhaust emissions**

The engine complies with EU stage 2 and TA-luft exhaust emission 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 for govering purpose 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. 1 hp = 1 kW x 1.36 Information

For more technical data and information, please look in the Generating Set Engines Sales Guide.



AB Volvo Penta SE-405 08 Göteborg, Sweden www.yolyopenta.com