# **VOLVO PENTA GENSET ENGINE**

# TAD1641GE



473kW (643 hp) at 1500 rpm, 546 kW (743 hp) at 1800 rpm, acc. to ISO 3046

The TAD1641GE 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 TAD1641GE complies with EPA/ CARB Tier 2 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 without the block being unnecessary heavy.
- Wet, replaceable cylinder liners
- Piston cooling for low thermal load on tons and reduced ring temperature
- Tapered connecting rods to resture lisk of piston cracking
- Crankshaft induction bard in bearing surfaces and fillets with so in main bearings for moderate load on main and big-end bearings
- Nitrocarburized transmission gears for heavy duty operation
- Keystone top compression rings for long service life
- Viscous type crankshaft vibration damper
- Replaceable valve guides and valve seats
- Over head camshaft and four valves per cylinder equipped with camshaft damper to reduce noise and vibrations.

## Lubrication system

- Full flow oil cooler
- Full flow disposable spin-on oil filters, for extra high filtration
- The lubricating oil level can be measured during operation (Standard dipstick only)
- Gear type lubricating oil pump, gear driven by the transmission



# **Features**

Maintained performance, air temp 40°C Tropical cooling system (55°C)

Fully electronic with Volvo Penta EMS 2

Dual frequency switch (between 1500 rpm and 1800 rpm)

- High power density
- Emission compliant
- Low noise levels
- Gen Pac configuration

### Fuel system

- Self de-aerating system. When replacing filters all fuel stays in the engine.
- Non-return fuel valve
- Electronic unit injectors
- Fuel prefilter with water separator and water-in-fuel indicator / alarm
- Gear driven low-pressure fuel pump
- Fine fuel filter with manual feed pump and fuel pressure switch
- Fuel shut-off valve, electrically operated

#### Cooling system

- Efficient cooling with accurate coolant control through a water distribution duct in the cylinder block. Reliable sleeve thermostat with minimum pressure drop
- Belt driven, maintenance-free coolant pump with high degree of efficiency
- Coolant filter as standard

#### Turbo charger

- Efficient and reliable turbo charger
- Extra oil filter for the turbo charger

#### **Electrical system**

 Engine Management System 2 (EMS 2), an electronically controlled processing system

- which optimizes engine performance. It also includes advanced facilities for diagnostics and fault tracing
- The instruments and controls connect to the engine via the CAN SAE J1939 interface, either through the Control Interface Unit (CIU) or the Digital Control Unit (DCU). The CIU converts the digital CAN bus signal to an anolog signal, making it possible to connect a variety of instruments. The DCU is a control panel with display, engine control, monitoring, alarm, parameter setting and diagnostic functions. The DCU also presents error codes in clear text.
- Sensors for oil pressure, oil temp, boost pressure, boost temp, coolant temp, fuel temp, water in fuel, fuel pressure and two speed sensors. Crank case pressure, piston cooling pressure, oil level and air filter pressure drop sensors.
- Alternator 24V / 80A

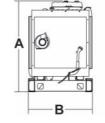


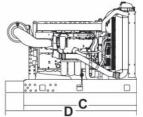
# **Technical Data**

Camanal		
General Engine designation		TAD1641GF
No. of cylinders and configuration		in-line 6
Method of operation		4-stroke
Bore, mm (in.)		144 (5.67)
Stroke, mm (in.)		
Displacement, I (in³) Compression ratio		
Dry weight, kg (lb)		
Dry weight with Gen Pac, kg (lb)		1910 (4211)
Wet weight, kg (lb) Wet weight with Gen Pac, kg (lb)		1550 (3417)
Wet weight with Gen Pac, kg (lb)		2020 (4453)
Performance	1500 rpm	1800 rpm
with fan, kW (hp) at:	1300 10111	1000 10111
Prime Power	430 (585)	485 (660)
Max Standby Power	473 (643)	546 (743)
Lubrication system	1500 rpm	1800 rpm
Oil consumption, liter/h (US gal/h) a Prime Power		0.11 (0.000)
Max Standby Power	0.10 (0.026) 0.10 (0.026)	0.11 (0.029) 0.12 (0.032)
Oil system capacity incl filters, liter	0.10 (0.020)	42
Oil change intervals at specification		
VDS-2, h		600
VDS, ACEA E3, h		400
ACEA E1, E2, AF1 CD, C1, C1-4, C	G-4, II	200
Fuel system	1500 rpm	1800 rpm
Specific fuel consumption at:	•	·
Prime Power, g/kWh (lb/hph)		
25 %	223 (0.361)	232 (0.376)
50 %	201 (0.326)	202 (0.327)
75 % 100 %	196 (0.318) 198 (0.321)	197 (0.319) 200 (0.324)
Max Standby Power, g/kWh (lb/hph)		200 (0.324)
25 %	218 (0.353)	228 (0.370)
50 %	199 (0.323)	201 (0.326)
50 % 75 %	199 (0.323) 195 (0.316)	
		201 (0.326)
75 % 100 %	195 (0.316) 198 (0.321)	201 (0.326) 197 (0.319) 205 (0.332)
75 % 100 % Intake and exhaust system	195 (0.316)	201 (0.326) 197 (0.319)
75 % 100 % Intake and exhaust system Air consumption, m³/min (cfm) at:	195 (0.316) 198 (0.321) <b>1500 rpm</b>	201 (0.326) 197 (0.319) 205 (0.332) 1800 rpm
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75 % 100 % Intake and exhaust system Air consumption, m³/min (cfm) at: Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc)	195 (0.316) 198 (0.321) 1500 rpm 32 (1130) 35 (1236) 5 (20.1)	201 (0.326) 197 (0.319) 205 (0.332) 1800 rpm 42 (1483)
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75 % 100 %  Intake and exhaust system Air consumption, m³/min (cfm) at: Prime Power Max Standby Power Max allowable air intake restriction, kPa (In wc) Heat rejection to exhaust, kW (BTU/Prime Power Max Standby Power Exhaust gas temperature after turbin °C (°F) at: Prime Power Max Standby Power Max Standby Power Max allowable back-pressure in exhaust Pa (In wc)	195 (0.316) 198 (0.321) 1500 rpm 32 (1130) 35 (1236) 5 (20.1) (min) at: 326 (18539) 356 (20245) e, 475 (887) 490 (914)	201 (0.326) 197 (0.319) 205 (0.332) 1800 rpm 42 (1483) 45 (1589) 5 (22.1) 373 (21213) 442 (25 36)
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75 % 100 %  Intake and exhaust system Air consumption, m³/min (cfm) at: Prime Power Max Standby Power Max allowable air intake restriction, kPa (ln wc) Heat rejection to exhaust, kW (BTU/Prime Power Max Standby Power Exhaust gas temperature after turbin °C (°F) at: Prime Power Max Standby Power Max allowable back-pressure in exhakPa (ln wc) Exhaust gas flow, m³/min (cfm) at: Prime power Max Standby Power  Cooling system Heat rejection radiation from engine kW (BTU/min) at: Prime Power Max Standby Power Heat rejection to coolant kW (BTU/Prime Power Max Standby Power Max Standby Power	195 (0.316) 198 (0.321) 1500 rpm 32 (1130) 35 (1236) 5 (20.1) 'min) at: 326 (18539) 356 (20245) ie, 475 (887) 490 (914) sust line, 10 (422) 79.0 (230) 4.3 (1998) 500 rpm 30 (1706) 34 (1934) min) at: 172 (9781) 176 (10009)	201 (0.326) 197 (0.319) 205 (0.332) 1800 rpm 42 (1483) 45 (1589) 5 (20.1) 373 (3.1213) 4.22 (25.36) 470 (878) 10 (40.2) 97.0 (3426) 106.6 (3765) 1800 rpm 32 (1820) 33 (1877) 185 (10521) 199 (11317)
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Standard equipment Engine	Engine	Gen Pac
Automatic belt tensioner		
Lift eyelets	•	•
Flywheel	·	•
Flywheel housing with conn. acc. to SAE 1		
Flywheel for 14" flex. plate and flexible coupling		
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	•	•
Cooling system		
Tropical radiator incl intercooler	•1)	•
Belt driven coolant pump	•	•
Fan hub	•	•
Thrust fan	•1)	•
Fan guard	_	•
Belt guard	_	•
Control system		
Engine Management System (EMS) with CAN-bus interface 3 AE J1939 and CIU		
	•	•
Alternator Alternator 0/0 24V		
Staring system	•	•
State moor, 7.0kW, 24V		
Connection facility for extra starter motor		
nstruments and senders	•	•
samp and oil pressure for automatic		
stop/alarm 103°C		
ther equipment		
Expandable base frame	_	
Engine Packing		
Plastic wrapping		•

- must be ordered, se order specification
   optional equipment or not applicable
- · included in standard specification





 $A^* = 1587 \text{ mm} / 62.5 \text{ in}$  $B^* = 1120 \text{ mm} / 44.1 \text{ in}$ 

 $C^* = 1976 \text{ mm} / 77.8 \text{ in}$ 

D = 2296 mm / 90.5 in (During transport)

D = Max 3311 mm / 130.5 in

Including radiator and intercoole

Note! 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 EPA / CARB - Tier 2 and TA-luft -50% 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**

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