

TAD1341GE



Technical Data

General

Engine designation	TAD1341 GE	
No. of cylinders and configuration	in-line 6	
Method of operation	4-stroke	
Bore, mm (in.)	131 (5.16)	
Stroke, mm (in.)	158 (6.22)	
Displacement, l (in ³)	12.78 (780)	
Compression ratio	18.1:1	
Wet weight, engine only, kg (lb)	1325 (2921)	
Wet weight with Gen Pac, kg (lb)	1790 (3946)	

Performance	1500 rpm	1800 rpm
with fan, kW (hp) at:		
Prime Power	271 (369)	287 (390)
Standby Power	298 (405)	317 (431)

Lubrication system	1500 rpm	1800 rpm
Oil consumption, liter/h (US gal/h) at:		
Prime Power	0.04 (0.011)	0.05 (0.013)
Standby Power	0.04 (0.011)	0.05 (0.013)
Oil system capacity incl filters, liter	36	

Fuel system	1500 rpm	1800 rpm
Specific fuel consumption at:		
Prime Power, g/kWh (lb/hph)		
25 %	230 (0.373)	237 (0.384)
50 %	202 (0.327)	211 (0.342)
75 %	195 (0.316)	202 (0.327)
100 %	191 (0.310)	200 (0.324)
Standby Power, g/kWh (lb/hph)		
25 %	226 (0.366)	242 (0.392)
50 %	200 (0.324)	209 (0.339)
75 %	194 (0.314)	201 (0.326)
100 %	191 (0.310)	200 (0.324)

Intake and exhaust system	1500 rpm	1800 rpm
Air consumption, m ³ /min (cfm) at:		
Prime Power	22.7 (802)	26.4 (932)
Standby Power	24.1 (849)	29.0 (1023)
Max allowable air intake restriction, kPa (PSI)	5 (0.7)	
Exhaust gas temperature after turbine, °C (°F) at:		
Prime Power	392 (738)	369 (696)
Standby Power	398 (748)	390 (734)
Max allowable back-pressure in exhaust line, kPa (PSI)	10 (1.5)	
Exhaust gas flow, m ³ /min (cfm) at:		
Prime power	49.0 (1732)	58.0 (2047)
Standby Power	52.0 (1839)	61.6 (2175)

Cooling system	1500 rpm	1800 rpm
Fan power consumption, std ratio, kW (hp) 10 (14)		18 (24)

Cooling performance	1500 rpm	1800 rpm
Max cooling air flow, m ³ /s (cfs)	6.7 (237)	8.2 (290)
AOT at max cooling air flow, °C (°F):		
Prime Power	69 (156)	68 (154)
Standby Power	66 (151)	65 (149)

Standard equipment

	Engine	Gen Pac
Engine		
Automatic belt tensioner	•	•
Lift eyelets	•	•
Flywheel		
Flywheel housing with conn. acc. to SAE 1	•	•
Flywheel for 14" flex. plate and flexible coupling	•	•
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	•	•
Turbo charger, low right side	•	•
Cooling system		
Radiator incl intercooler	•1)	•
Coolant pump	•	•
Fan hub	•	•
Thrust fan	•1)	•
Fan guard	-	•
Belt guard	-	•
Control system		
Engine Management System (EMS) with CAN-bus interface SAE J1939	•	•
Alternator		
Alternator 80 A	•	•
Starting system		
Starter motor	•	•
Connection facility for extra starter motor	•	•
Instruments and senders		
Temp.- and oil pressure for automatic stop/alarm	•	•
Other equipment		
Expandable base frame	-	•
Engine Packing		
Plastic wrapping	•	•

1) must be ordered, see order specification

2) Available later

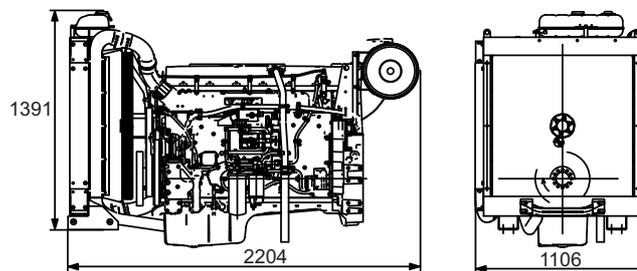
- optional equipment or not applicable

• included in standard specification

For our wide range of optional equipment, please see Order specification.

Dimensions TAD1341GE

Not for installation



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% at 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 emission legislation according to the Non Road Directive EU 97/68/EEC. The engine also complies with 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 governing purpose 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.

1 hp = 1 kW x 1.36



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