

TAD941GE



Technical Data

General

Engine designation	TAD941GE	
No. of cylinders and configuration	in-line 6	
Method of operation	4-stroke	
Bore, mm (in.)	120 (4.72)	
Stroke, mm (in.)	138 (5.43)	
Displacement, l (in ³)	9.36 (571)	
Compression ratio	17.4:1	
Dry weight, kg (lb)	1015 (2238)	
Dry weight with Gen Pac, kg (lb)	1354 (2986)	
Wet weight, kg (lb)	1065 (2348)	
Wet weight with Gen Pac, kg (lb)	1404 (3096)	

Performance	1500 rpm	1800 rpm
with fan, kW (bhp) at:		
Prime Power	279 (374)	294 (394)
Max Standby Power	308 (413)	326 (437)

Lubrication system	1500 rpm	1800 rpm
Oil consumption, l/h (US gal/h) at:		
Prime Power	0.05 (0.014)	0.06 (0.015)
Max Standby Power	0.06 (0.015)	0.06 (0.016)
Oil system capacity incl filters, liter (US gal)	33 (8.7)	

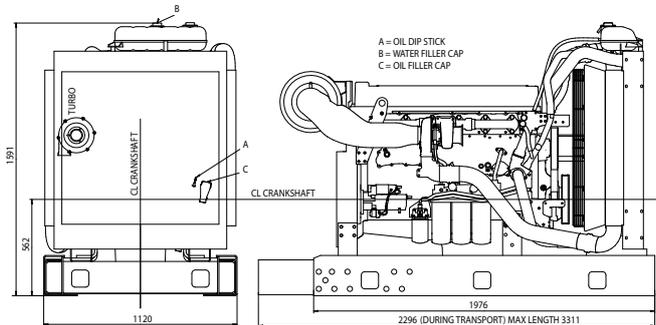
Fuel system	1500 rpm	1800 rpm
Specific fuel consumption at:		
Prime Power, g/kWh (lb/hph)		
25%	230 (0.373)	242 (0.392)
50%	208 (0.337)	214 (0.347)
75%	200 (0.324)	204 (0.331)
100%	202 (0.327)	205 (0.332)
Max Standby Power, g/kWh (lb/hph)		
25%	226 (0.366)	238 (0.386)
50%	205 (0.332)	210 (0.340)
75%	200 (0.324)	203 (0.329)
100%	204 (0.331)	207 (0.336)

Intake and exhaust system	1500 rpm	1800 rpm
Air consumption, m ³ /min (cfm) at:		
Prime Power	17.7 (625)	22.0 (777)
Max Standby Power	19.6 (692)	23.8 (840)
Max allowable air intake restriction, kPa (In wc):	5 (20.1)	5 (20.1)
Heat rejection to exhaust, kW (BTU/min) at:		
Prime Power	224 (12739)	230 (13080)
Max Standby Power	239 (13592)	260 (14786)
Exhaust gas temperature after turbine, °C (°F) at:		
Prime Power	519 (966)	467 (873)
Max Standby Power	539 (1002)	494 (921)
Max allowable back-pressure in exhaust line, kPa (In wc)	10.0 (40.2)	10.0 (40.2)
Exhaust gas flow, m ³ /min (cfm) at:		
Prime Power	46.5 (1642)	53.1 (1875)
Max Standby Power	52.2 (1843)	59.2 (2091)

Standard Equipment

Engine	Gen Pac
Engine	
Automatic belt tensioner	•
Lift eyelets	•
Flywheel housing with conn. acc. to SAE 1	•
Flywheel for 14" flex. plate and flexible coupling	•
Vibration dampers	•
Engine suspension	
Fixed front and rear 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 and water-in-fuel indicator/alarm	•
Intake and exhaust system	
Air filter without rain cover	•
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, high right side	•
Cooling system	
Tropical radiator incl intercooler	-
Belt driven coolant pump	•
Fan hub	-
Thrust fan	-
Fan guard	•
Belt guard	-
Control system	
Engine Management System 2 (EMS 2) with CAN-bus interface SAE J1939	•
Alternator	
Alternator 80A / 24V	•
Starting system	
Starter motor, 5.5kW, 24V	•
Connection facility for extra starter motor	•
Instruments and senders	
Temp. and oil pressure for automatic stop/alarm	•
Engine Packing	
Plastic wrapping	•

- optional equipment or not applicable
• included in standard specification



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/litre (7.01 lb/US gal, 8.42 lb/Imp gal), also where this involves a deviation from the standards.

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 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. 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 bhp = 1 kW x 1.341



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