GREEN POWER PERKINS DIESEL ENGINE

1500 RPM	Type GP150P

The Engine with integrated water cooling

Engine: 1106A-70TAG2

Technical description

- Optimized cast iron cylinder block with optimum distribution of forces
- Piston cooling for low piston temperature and reduced ring temperature
- Powerful but 7 litre naturally aspirated 6 cylinder compact Engine
- Crankshaft hardened bearing surfaces and fillets for moderate on main and big end bearings
- Keystone top compression rings for long service life
- Replaceable valve guides and valve seats
- Thermostatically controlled system with gear driven circulation pump
- Lift eyelets
- High inertia flywheel to SAE J620
- Flywheel for flexible coupling and friction clutch
- Front engine mounting brackets

Benefits

- Low noise emission, cost savings as no noise attenation measures are required
- Long service intervals: 1000 hour oil change intervals and low fuel consumption bring savings in Operating costs
- Low installation costs
- Excellent load takeover characteristics ensure prompt power supply
- Combined oil cooling and lubrication prevents corrosion and cavitation
- High reliability and durability together with reduced maintenance requirement and wear parts

Fuel System

- Mechanically governed cassette type fuel injection pump
- Split element fuel filter

Oil System

- Spin-on full flow lub oil filter
- Wet steel sump with filler and dipstick

Control Panel

Manual or Automatic start control panel

- 12 volt Electronic shut Off Solenoid(ESOS) energised to run
- 12 volt starter motor and 12 volt 15 amp alternator with DC output
- Glow plug cold start aid and heater/starter switch
- Oil pressure and coolant temperature switches

Rating Table : The Genset 1106A-70TAG2 Engine.

Engine type		1106A-70TAG2
Speed	min^{-1} | rpm	1500
Frequency	Hz	50
Engine Power		
Prime power (PRP)	kVA | KW	150 | 120
Limited time running power (LTP)	kVA | KW	165 | 132
Fuel consumption		
110 % Load	l/hr	35.1
100 % Load	l/hr	32.4
75 % Load	l/hr	25.0
50 % Load	l/hr	16.7

PRP* kVA/KW :

Prime power is available for an unlimited number of annual hours in variable load application. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

LTP** kVA/KW :

The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Scope of supply :

The engine and alternator are mounted together forming a rigid monoblock, the shoulders are connected by inflexible disc connection. The mono-block is mounted on a steel base frame through silent blocks. The base frame is including a fuel tank. Starting is electric and it contains a battery. The generator monitoring system consists of a control module.

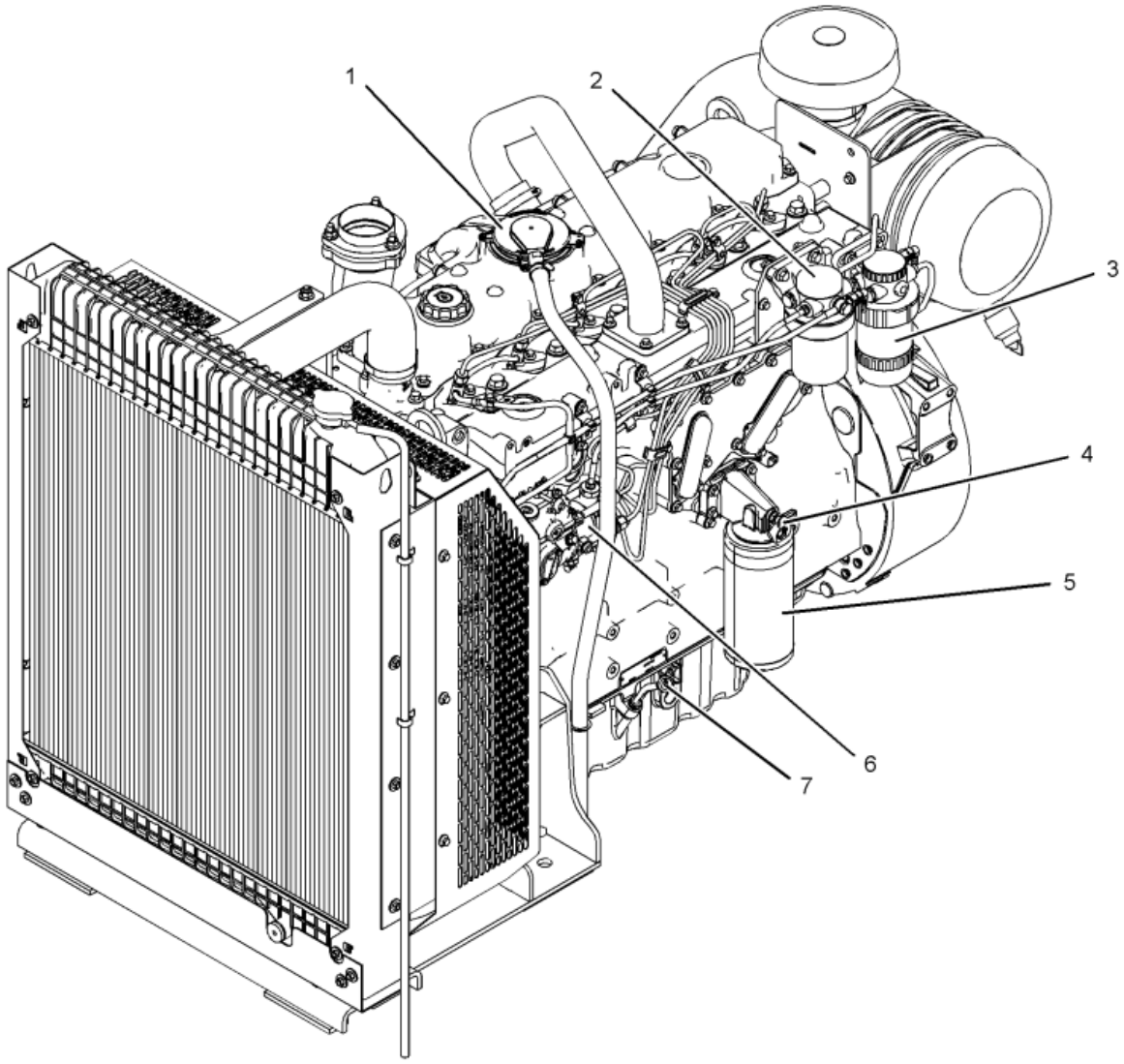
Technical Data

Engine type		1106A-70TAG2
Numer of cylinder		6
Bore x Stroke Displacement Compression ratio	mm l	105 x 135 7.0 16:1
Engine Power PRP	KW	120
Engine Power LTP	KW	132
Cooling Type		water
Injection Type		Indirect
Dry weight	Kg	788
Max. exhaust backpressure	kPa	15
Max standby power at rated RPM	KW/HP	144/200
Coolant capacity	Litres	21
Battery	Ah	250
Oil Tank capacity	Litres	16.5
Exhaust gas flow	m^3/min	25.5
Exhaust gas Temperature	^oC	484

Dimensions

Engine type		Length	Width	Height
1106A-70TAG2	mm	1763	756	1142

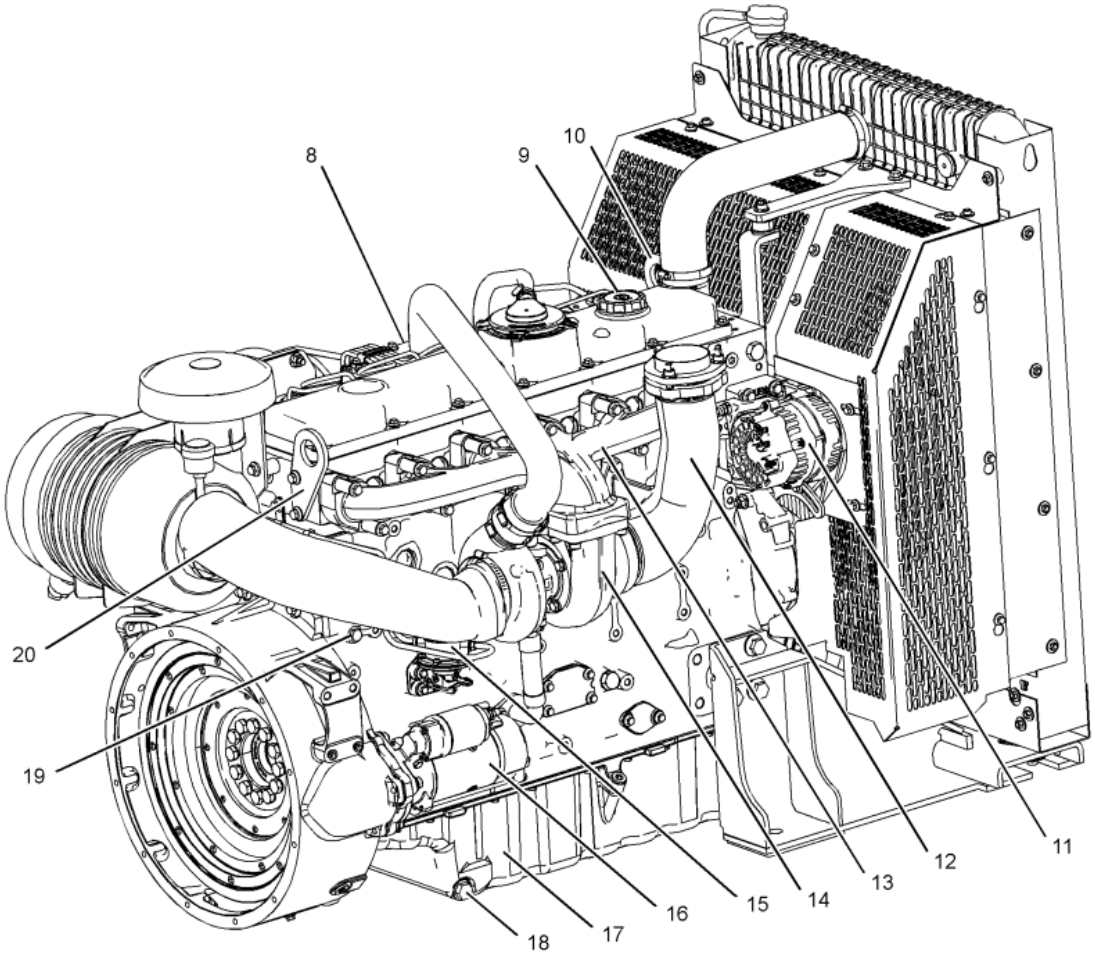
Engine Illustration



Engine Description

1106A-70TAG2

1 Crankcase breather
2 Secondary fuel filters
3 Primary fuel filter
4 Oil sampling valve
5 Oil filter
6 Fuel injection pump
7 Oil gauge (dipstick)



Engine Description

1106A-70TAG2

8 Air intake
9 Oil filler
10 Front lifting eye
11 Alternator
12 Exhaust elbow
13 Exhaust manifold
14 Turbocharger
15 Fuel priming pump
16 Starting motor
17 Oil pan
18 Drain plug (oil)
19 Drain plug (coolant)
20 Rear lifting eye

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