



Stationary Pump Performance Data  
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**4BTA3.9-P110**

**80KW @ 1800rpm**

**FR96142**

CPL Code  
**CPL4562**

Revision  
**2017/4/25**

Version  
**00**

Displacement: **3.9L**

Aspiration: **Turbocharger& Aftercooler**

Application: **Stationary Water Pump**

Fuel System: **Mechanical Pump+Electronic Governor**

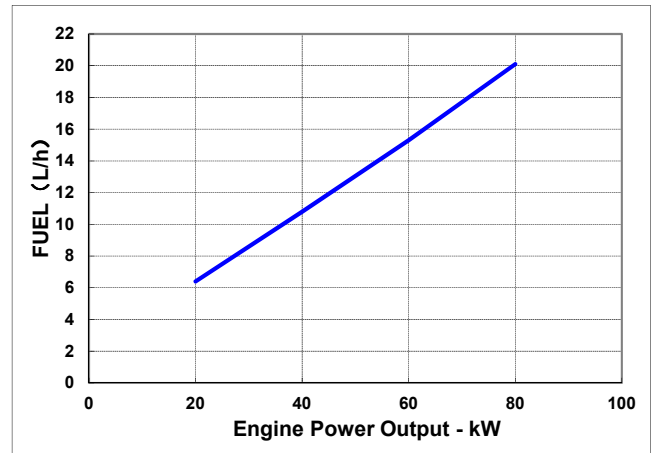
All data is based on the engine operating without air compressor, fan, generator, optional equipment and driven components.  
 All data is based on the engine operating with 3.7 kPa inlet air restriction, 10 kPa exhaust restriction and with 13 kPa Inter-cooled implement differential pressure.

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 conditions of 100kPa baiometric press, 298K inlet air temperature, and 1kPa water vapor pressure.

**Performance curve**

Engine Performance Data @ 1800 RPM

OUTPUT POWER			FUEL CONSUMPTION	
%	Kw	PS	g/kw.h	L/h
100	80	109	207	20.1
75	60	82	210	15.3
50	40	54	223	10.8
25	20	27	266	6.4



**General Performance Data**

Low idle speed:	1000±50	rpm
Maximum no load speed:	1854±20	rpm
Maximum overspeed capability(15sec max):	2900	rpm
Maximum altitude limit for continuous running:	1500	m
*Above 1500m, Power derated 4% per 300m		
Cold start capability(Sea Level without Load)		
Minimum ambient temperature for unaided cold start:	-12	°C
Minimum ambient temperature with Grid Heater only:	-35	°C
Cold start capability(Sea Level with Load)*		
Max parasitic load at 0°C @ 500r/min without Aid:	TBD	N.m
Max parasitic load at -15°C @ 500r/min without Aid:	TBD	N.m

\*Data was measured at 101kPa atmospheric pressure, crank start speed above 80r/min with 0W40 type lube oil and diesel matched GB19147.

**Performance data**

Parameter	Advertised Power
Engine Speed(rpm)	1800
Output Power(kW)	80
Torque(N.m)	424
Inlet air flow(L/s)	93
Charge air flow(kg/min)	7.18
Exhaust gas flow(kg/min)	7.43
Exhaust gas temperature(deg C)	392
Heat rejection to coolant(kW)	TBD
Radiator coolant flow(L/min)	TBD
Heat rejection to charge air cooler(kW)	TBD
Turbo Comp.Outlet Pressure(kPa)	TBD
Temperature(deg C)	TBD
Fuel Consumption(kg/hr)	16.6