



Stationary Pump Performance Data
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4BT3.9-P50

36KW @ 1500rpm

FR96139

CPL Code
 CPL3115

Revision
 2017/4/25

Version
 00

Displacement: **3.9L**

Aspiration: **Turbocharged**

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.

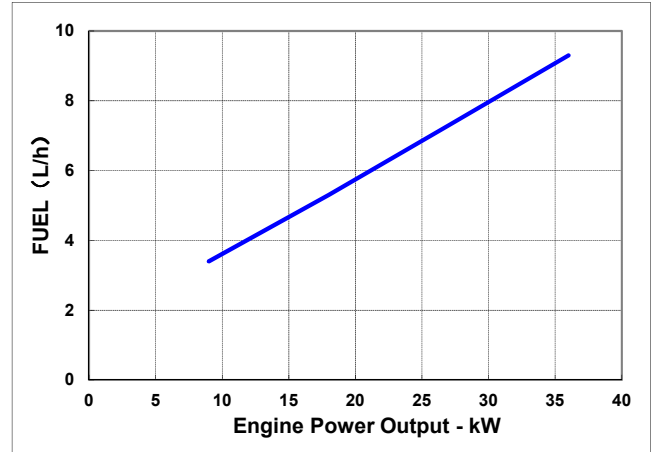
All data is based on the engine operating with 3.7 kPa inlet air restriction, 10 kPa exhaust restriction and with 13 kPa Inter-cooled implement differential pressure.

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 @ 1500 RPM

OUTPUT POWER			FUEL CONSUMPTION	
%	Kw	PS	g/kw.h	L/h
100	36	49	214	9.3
75	27	37	223	7.3
50	18	24	244	5.3
25	9	12	312	3.4



General Performance Data

Low idle speed:	1000±50	rpm
Maximum no load speed:	1575±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)	1500
Output Power(kW)	36
Torque(N.m)	229.2
Inlet air flow(L/s)	45
Charge air flow(kg/min)	3.49
Exhaust gas flow(kg/min)	3.60
Exhaust gas temperature(deg C)	359
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)	7.9