

	DONGFENG CUMMINS ENGINE PERFORMANCE CURVE	Engine Model 4BT3.9-G2	Curve No. FR L003	
		Engine Family	CPL Code PP L005	Date 04-2006

Displacement: 3.9L

Advertised Power: 36kW@1500 rpm

Bore: 102mm

48HP@1500 rpm

Stroke: 120mm

Fuel System: Beiyou A Pump, GAC Electric Governor

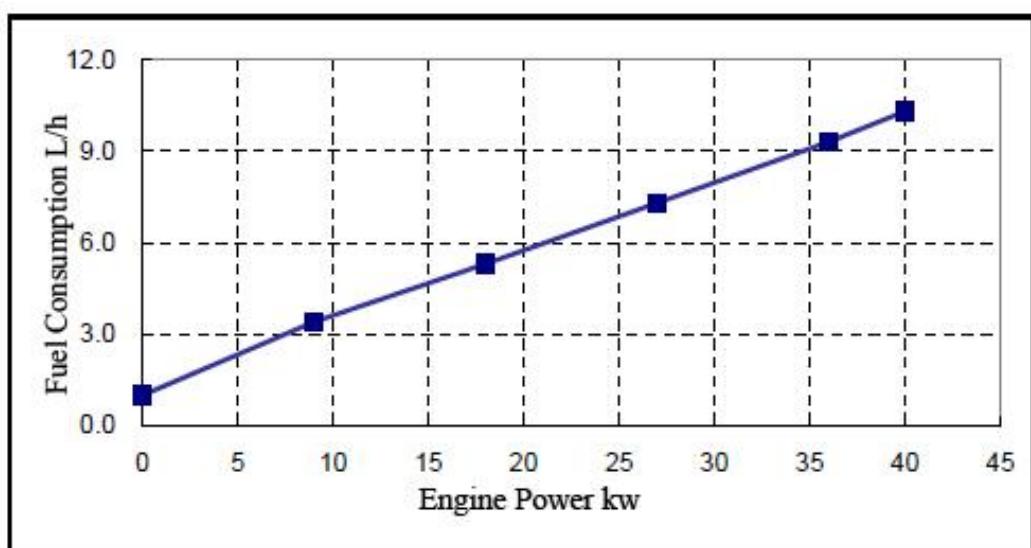
Aspiration: Turbocharged

Cylinders: 4 Cylinders, in Line

Rating Type: Continuous

Engine Speed	Standby Power		Rated Power		Continuous Power	
RPM	KW	HP	KW	HP	KW	HP
1500	40	54	36	48	N/A	N/A

Output Power			Fuel Consumption	
%	KW	HP	g/kw.h	L/h
Standby Power				
100	40	54	212	10.3
Rated Power				
100	36	48	214	9.3
75	27	36	223	7.3
50	18	24	244	5.3
25	9	12	312	3.4
Continuous Power				
N/A	N/A	N/A	N/A	N/A



Performance data obtain under normal conditions, according to GB/T18297 test conditions

Technical Request

Aspiration.....	Turbocharged
Net Weight(Dry)-Engine Only.....	321kg
Instantaneous inertia at Rotating: (without Flywheel).....	0.143kg.m2
Distance from Center of Gravity to the Front Engine Block.....	373mm
Distance from Center of Gravity to the Crankshaft Centerline.....	163mm

Engine Mounting

Maximum (Static) Bending Moment at Rear Face of Block.....	1356 N.m
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Exhaust System

Maximum Back Pressure.....	76 mmHg
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Air Intake System

Maximum Intake Air Restriction:

- with Dirty Filter Element..... 635 mmH2O
- with Normal Clean Air Filter and Clean Filter Element..... 254 mmH2O
- with Heavy-duty Clean Air Filter and Clean Filter Element..... 381 mmH2O

Lubrication System

Normal Operating Oil Pressure Range:

- at Idle Speed..... 207 kPa
- at Rated Speed 345 kPa

Maximum Sump Oil Temperature..... 121 °C

Angularity of Standard Oil Pan: Oil Capacity(Max.-Min.)..... 9.5-8.5 litre

Minimum Required Lube System Capacity - Sump plus Filters..... 10.9 litre

Angularity of Standard Oil Pan:

- Front Down..... 40 °
- Front Up..... 40°
- Side to Side..... 40°

Fuel System

Type of Fuel System.....	BYC A Type Direct Fuel Injection Pump
The Maximum Resistance of Fuel Pump When Use Clean Filter.....	102mmHg
Maximum Fuel Return Oil Resistance.....	254mmHg
Return Fuel in Total(Constant Load).....	30litre/hr

Cooling System

Coolant Capacity - Engine Only.....	7.2 L
Maximum Engine Cooling Circuit External Resistance.....	28kPa
Minimum Pump Inlet Pressure with Open Thermostat and no Pressure Cap.....	14m
Standard (modulating) Thermostat Range.....	82-95 °C
Minimum Pressure Cap.....	69 kPa

The Highest Coolant Temperature(Standby/Rated Power)..... 104/100 °C

Electrical System

Starter Motor.....	12V	24V
Battery Charging System(Polarity Negative Ground).....	63amp	40amp
Maximum Resistance of Starting Circuit.....	0.00075Ω	0.002Ω

Specification Data:

Engine Speed.....	rpm
Output Power.....	kw
Torque.....	N.m
Idle Speed.....	rpm
Frictional Loss Power.....	kw
Piston Speed.....	m/s
Coolant Flow.....	l/s
Air Intake Flow.....	l/s
Air Exhaust Flow.....	l/s
Exhaust Temperature.....	°C
Heat Loss in The Environment.....	kw
Coolant Heat Loss.....	kw
Fuel Heat Loss.....	kw

Rated Power	Standby Power
1500	1500rpm
36	40
229	255
950-1050	950-1050
8.2	8.2
6.0	6.0
2.2	2.2
43.6	44.9
101	108
463	487
N/A	N/A
25.9	29
N/A	N/A

ALL DATA CERTIFIED WITHIN 5%

TBD = To Be Decided N/A = Not Applicable N.A. = Not Available

All data is subject to change without notice, sorry for inform.