



DONGFENG CUMMINS ENGINE  
PERFORMANCE CURVE

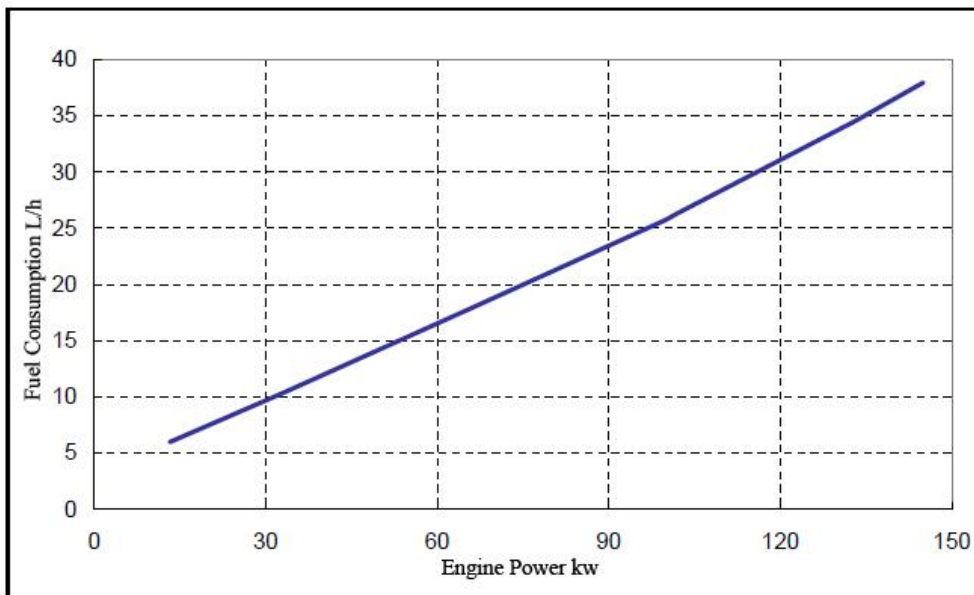
Engine Model <b>6CT8.3-G2</b>	Curve No. <b>FR92183</b>	
Engine Family <b>D41</b>	CPL Code <b>2335</b>	Date <b>08-2006</b>

Displacement: 8.3L  
Bore: 114mm  
Stroke: 135mm  
Fuel System: Beiyou PB Pump, GAC Electrical Governor  
Cylinders: 6 Cylinders, in Line

Advertised Power: 133kW@1500 rpm  
178HP@1500 rpm  
Aspiration: Turbocharged  
Rating Type: Continuous

Engine Speed	Standby Power		Rated Power		Continuous Power	
RPM	KW	HP	KW	HP	KW	HP
1500	145	194	133	178	102	137

Output Power			Fuel Consumption	
%	KW	HP	g/kw.h	L/h
<b>Standby Power</b>				
100	145	194	216	38
<b>Rated Power</b>				
100	133	178	214	34
75	100	134	213	26
50	67	89	225	18
25	33	45	257	10
<b>Continuous Power</b>				
100	102	137	213	26



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

## Technical Request

Aspiration.....	Turbocharged
Net Weight(Dry)-Engine Only.....	684kg
Instantaneous inertia at Rotating: (without Flywheel).....	0.37kg.m <sup>2</sup>
Distance from Center of Gravity to the Front Engine Block.....	541mm
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 mmH <sub>2</sub> O
— with Normal Clean Air Filter and Clean Filter Element.....	254 mmH <sub>2</sub> O
—with Heavy-duty Clean Air Filter and Clean Filter Element.....	381 mmH <sub>2</sub> O

## Lubrication System

Normal Operating Oil Pressure Range:

— at Idle Speed.....	103 kPa
— at Rated Speed .....	276 – 414 kPa

Maximum Sump Oil Temperature.....	121 °C
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Angularity of Standard Oil Pan: Oil Capacity(Max.-Min.).....	18.9-15.1 litre
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Minimum Required Lube System Capacity - Sump plus Filters.....	23.8 litre
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Angularity of Standard Oil Pan:

— Front Down.....	45 °
— Front Up.....	45°
— Side to Side.....	45°

## Fuel System

Type of Fuel System.....	Beiyou PB Direct Fuel Injection Pump
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The Maximum Resistance of Fuel Pump When Use Clean Filter.....	102mmHg
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Maximum Fuel Return Oil Resistance.....	254mmHg
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Return Fuel in Total(Constant Load).....	202mmHg
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## Cooling System

Coolant Capacity - Engine Only.....	10 L
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Maximum Engine Cooling Circuit External Resistance.....	28kPa
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Minimum Pump Inlet Pressure with Open Thermostat and no Pressure Cap.....	18.3m
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Standard (modulating) Thermostat Range.....	82-95 °C
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Minimum Pressure Cap.....	69 kPa
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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
133	145
847	923
750-950	750-950
17	17
6.8	6.8
2.8	2.8
142	152
N/A	N/A
520	560
N/A	N/A
63	68
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.*