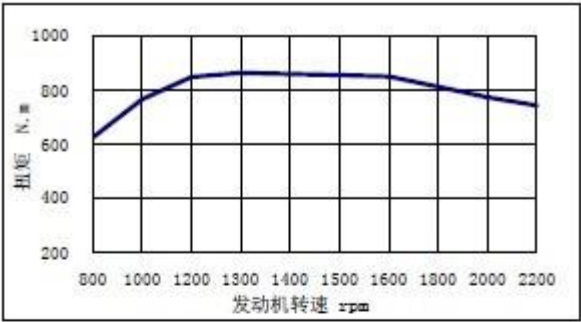
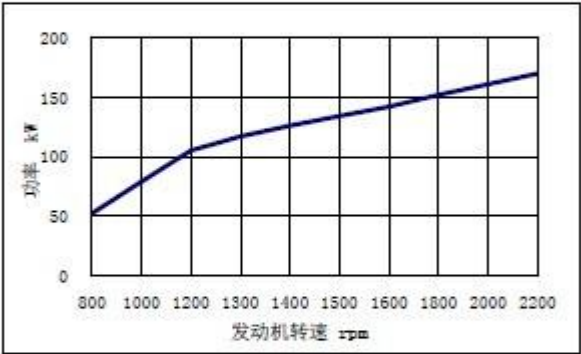
	DONGFENG CUMMINS ENGINE PERFORMANCE CURVE	Engine Model C230 20	Curve No. FR91304	
			CPL Code 0311	Date 13-June

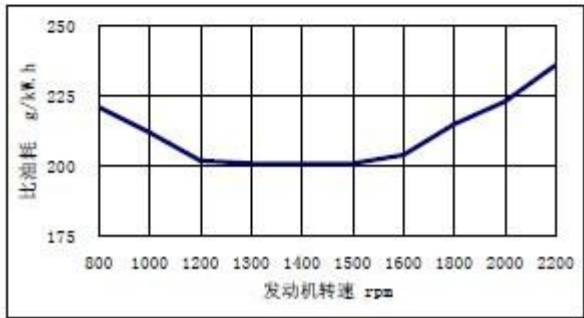
Displacement: 8.3L	Advertised Power: 170kW@2200 rpm
Bore: 114mm	230HP@2200 rpm
Stroke: 135mm	Peak Torque: 861N.m@1300 rpm
Fuel System: PW2000/RQV-K	Aspiration: Turbocharged & Air-Air intercooler
Cylinders: 6 Cylinders, in Line	Rating Type: Continuous



扭矩	
rpm	N.m
800	622
1000	763
1200	845
1300	861
1400	857
1500	853
1600	848
1800	809
2000	770
2200	740



功率	
rpm	kW
800	52
1000	79
1200	105
1300	117
1400	126
1500	134
1600	142
1800	152
2000	161
2200	170



比油耗	
rpm	g/kW.h
800	222
1000	213
1200	203
1300	201
1400	201
1500	201
1600	204
1800	215
2000	223
2200	237

Performance data obtain under normal conditions, according to GB/T18297-2001 test conditions

Cummins Engine Co. Ltd

Diesel Engine for Vehicle Performance Data

Technical Request

Aspiration:	Turbocharged & Air to air intercooled
Emission Certification	GB14761
Net Weight(Dry)-Engine Only-Average:	604kg
Net Weight(Dry)-Engine with Heat Exchanger-Average	636kg
Compression Ratio:	18:1
Distance from Center of Gravity to the Front Engine Block	427mm
Distance from Center of Gravity to the Crankshaft Centerline	163mm
Maximum Bending Moment at Rear Face of Block	1356 N.m
Limit load of Thrust Bearing:	
Instantaneous maximum:	3558 N
Continuous maximum	2670N
Instantaneous inertia at Rotating: (without Flywheel)	kg.m ²

Performance Characteristic

Idle Speed:	750rpm
Maximum non-load speed:	2500rpm
Over speed performance(within 15 seconds):	3500rpm
Maximum Altitude at Continuous Operation:	3000m
The clutch torque @ 800rpm:	600N.m
When install exhaust braking:	
The limit exhaust pressure of Turbocharger export @3150 rpm	450 kPa
Maximum power of Exhaust brake	162kw

Engine Speed (RPM)	Oil Pressure (kPa)	Air Flow	Exhaust Temperature (°C)	Fuel Consumption (l/hr)	Coolant Flow (l/m)	Radiation Loss (kw)	Wear Power (kw)
2200	458	429	550	40.4	276	111	42
1400	295	211	526	23.5	168	68	20

Engine Model **C230 20:**

Curve No.: **FR91304**

All values within $\pm 5\%$.

Cummins Engine Co. Ltd

Diesel Engine for Vehicle Performance Data

LUBRICATION SYSTEM

Oil Sump Capacity:

Upper Limit: 19.0L

Lower Limit: 15.2L

Capacity of the whole system: 23.6 L

AIR SYSTEM

Air intake maximum temperature rise from Outside to the Turbocharger 15°C

The allowable maximum restriction when use Dry Air Filter

Medium: kPa (mmH₂O) 2.9(300)

Heavy: kPa (mmH₂O) 3.7(380)

The allowable maximum restriction when use dirty Filter Element: kPa (mmH₂O) 6.2(635)

EXHAUST SYSTEM

The maximum exhaust resistance with exhaust manifold and muffler: kPa(mmHg) 10.0(75)

The allowable minimum diameter of the exhaust manifold: 75mm

FUEL SYSTEM

The maximum resistance of Fuel Pump when use clean filter 150mmHg

Maximum fuel return oil resistance: 520mmHg

COOLING SYSTEM

Engine Coolant Capacity: 12.3 L

The range of temperature adjustment for the Thermostat: 83-95 °C

The maximum pressure of Coolant(without pressure cap and thermostat closed) 280kPa

The highest coolant temperature (at engine exports): 100°C

Maximum degassing time 25mins

Maximum coolant flow to accessories 56 L/min

The lowest coolant temperature 70°C

Minimum speed of water-filling 19 l/min

Minimum coolant expansion volume relative to the system capacity 6 %

Water tank capacity without water expansion 6 L

Minimum allows pressure of pressure cap: 50 kPa

The alarm temperature of the coolant 100°C

The open temperature of louver N/A

Cooling ability of cooling system: Stage II Stage III

The limit environmental temperature at rated speed 45 °C 42 °C

The limit environmental temperature at peak torque 40°C 37°C

24V ELECTRICAL SYSTEM

Maximum resistance of starting circuit	0.002Ω
The cold start current when engine and the clutch separate: CCA	510

COLD STARTING SYSTEM

The lowest cold starting temperature without auxiliary starting device	-12°C @120rpm
The lowest cold starting temperature with starting device	-25°C@ 110rpm

Cummins Engine Co. Ltd
All data is subject to change without notice- contact Cummins for most recent data.