



Industrial Engine Performance Data  
 DONGFENG CUMMINS ENGINE Co., LTD.  
 XiangYang, Hubei Province, China  
 www.cumminspowerunits.com

**D563004CX03**  
**QSL8.9-P280**

**FR95838**

**206KW @ 1500rpm**

**CPL Code**  
**CPL4922**

**Revision**  
**2016/12/12**

**Version**  
**00**

Displacement: **8.9L**

Aspiration: **Turbocharged and Charge Air Cooled**

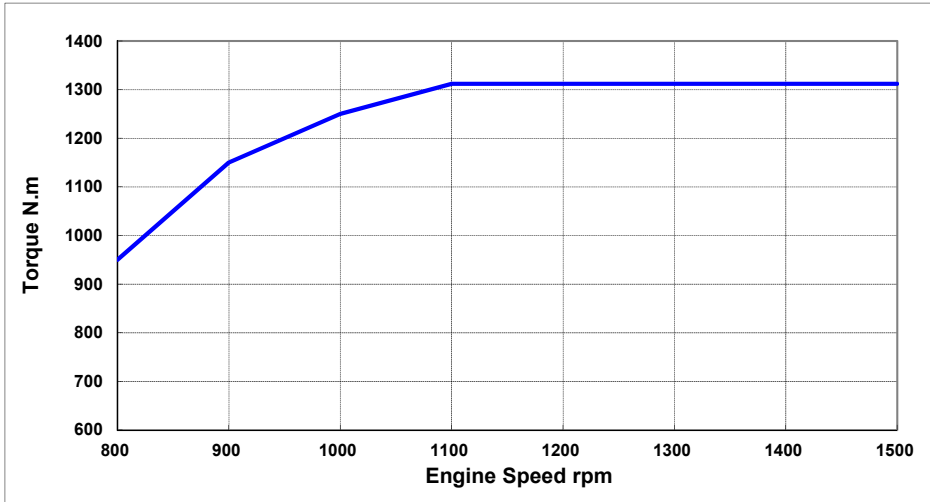
Emission Certification: **FIXED PUMP**

Fuel System: **HPCR**

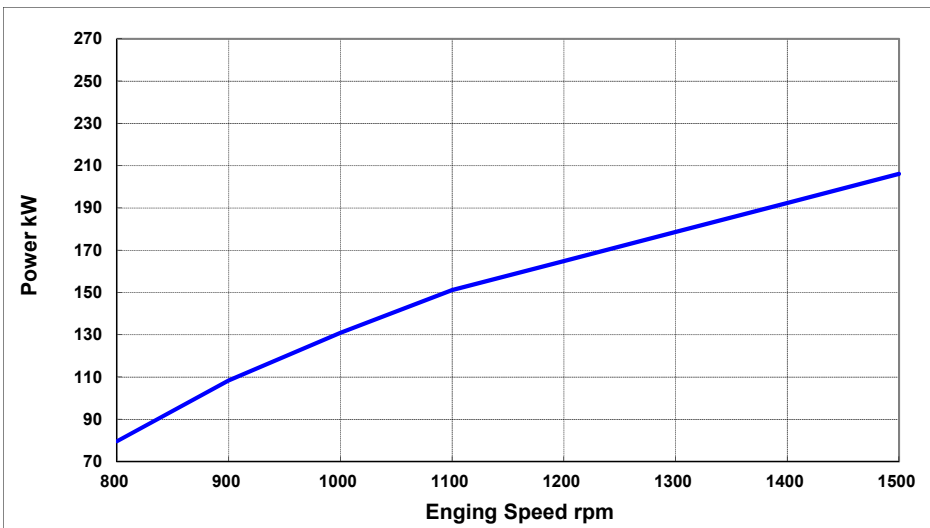
Application: **WATER PUMP**

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.

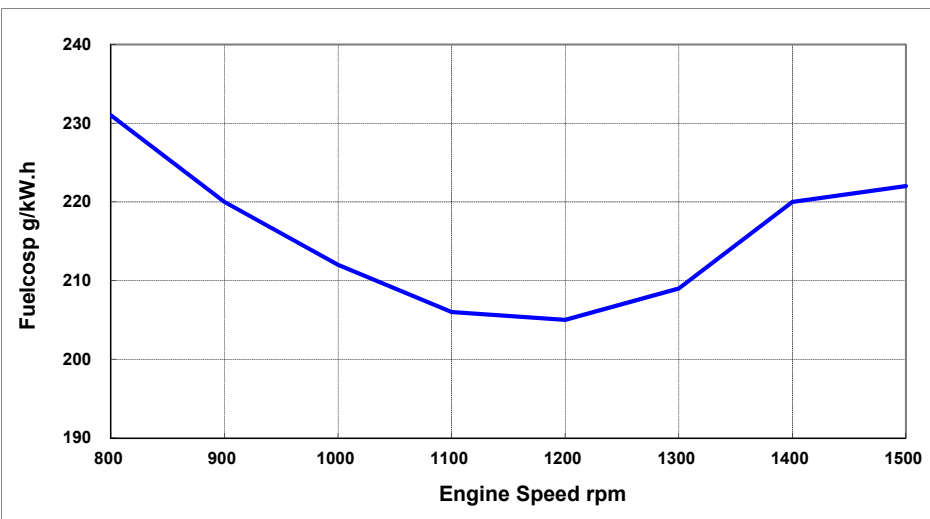
**Performance curve**



Torque	
rpm	N.m
1500	1312
1400	1312
1300	1312
1200	1312
1100	1312
1000	1250
900	1150
800	950



Power	
rpm	kW
1500	206
1400	192
1300	179
1200	165
1100	151
1000	131
900	108
800	80



Fuelcosp.	
rpm	g/kW.h
1500	222
1400	220
1300	209
1200	205
1100	205
1000	212
900	220
800	231



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**General Performance Data**

Low idle speed:	800±50	rpm
Maximum no load speed:	1575±20	rpm
Maximum overspeed capability(15sec max):	3150	rpm
When 0% gas pedal loading capacity :	800	N.m
Maximum altitude limit for continuous running:	N/A	m
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
* Maximum parasitic load at 0°C @ 500r/min:	450	N.m
* Maximum parasitic load at -15°C @ 500r/min:	420	N.m
Sound Pressure Level at 1m (GB/T1859):	TBD	dB

\*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)	206		
Torque(N.m)	1312		
Inlet air flow(L/s)	253		
Charge air flow(kg/min)	19.58		
Exhaust gas flow(kg/min)	20.34		
Exhaust gas temperature(deg C)	521		
Heat rejection to coolant(kW)	82		
Radiator coolant flow(L/min)	240		
Heat rejection to charge air cooler(kW)	43		
Turbo Comp.Outlet Pressure(kPa)	211		
Temperature(deg C)	181		
Fuel Consumption(kg/hr)	45.7		

**Altitude Derate**

Altitude	Turque Derate Ratio		
	Advertised Power		
Engine Speed (rpm)	1500		
Torque (N.m)	1312		
0 m	TBD		
2000m	TBD		
2500m	TBD		
3000m	TBD		
3500m	TBD		
4000m	TBD		
4500m	TBD		

The atmosphere parameters of engine test at different altitude refer to ISO 2533

**Change Log**

Date	Author	Change Description
2016.12.14	Li Shuming	Released