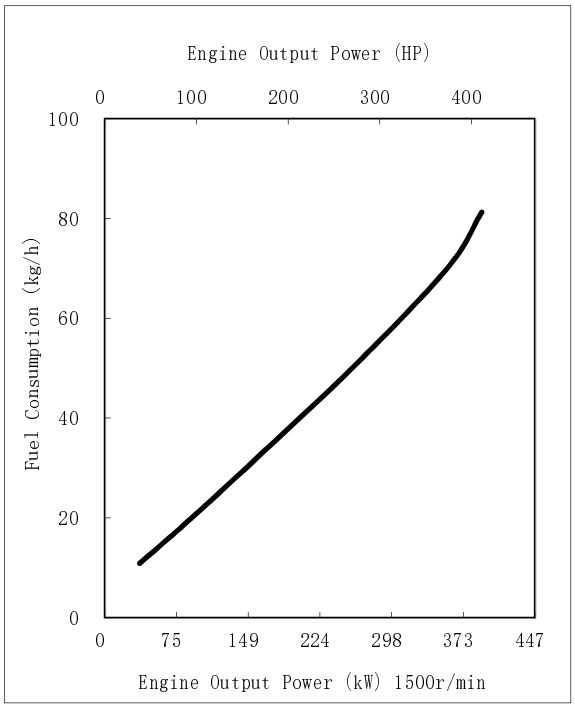
CCEC	CHONGQING CUMMINS ENGINE PERFORMANCE CURVE	Engine Model QSNT-G		Curve No. FR11390	Date 2014.09
		CPL Code 4691	Data Sheet	Emission Level stage 3	

Displacement: **14L** **[855 in.^{3}]** Cylinders: **6** Fuel System: **PT**

Bore: **140mm** **[5.50 in.]** Speed: **1500r/min** Cfg. Number: **D093677GX03**

Stroke: **152mm** **[6.00in.]** Aspiration: **Turbocharged and Charged Air Cooled**

Standby Power		Prime Power		Continuous Power	
kW	HP	kW	HP	kW	HP
392	525	358	480	291	390



	Output Power		Fuel Consumption
	HP	kW	kg/h
Standby100%	525	392	81.3
Prime100%	480	358	70.5
75%	360	269	52.3
50%	240	179	35.8
25%	120	90	20.0
10%	48	36	10.9
Cont.100%	390	291	56.9

All data is based on :

--Engine Operating with fuel system, water pump, lubricating oil pump, air cleaner and exhaust silencer; not included are battery charging alternator, fan, optional equipment and driven components.

--Engine operating with fuel corresponding to grade No.2-D per ASTM D975.

--ISO 3046, Part1, Standard Reference Conditions of : Barometric Pressure:100kPa(29.5in.Hg); Air Temperature: 25°C (77°F) ; Relative Humidity: 30% .

Tolerance is certified within 5%.

CHIEF ENGINERR：

Chongqing Cummins Engine Co. Ltd.

Engine Data Sheet

MODEL: QSNT-G **DATA SHEET: FR11390**
CONFIGURATION NO.: D093677GX03 **PERFORMANCE CURVE:**
CPL NUMBER: 4691 **INSTALLATION DIAGRAM:**
PRIME POWER 358kW(480HP)/1500r/min@50Hz **DATE: 2016.6.27**
STANDBY POWER: 392kW(525HP)/1500r/min@50Hz **EMISSION LEVEL: stage 3**

GENERAL ENGINE DATA

Type	6-Cylinder;In-line;4-Cycle	
Aspiration	Turbocharged and Charge Air Cooled	
Bore x Stroke - in.×in. (mm×mm)	5.5 ×6	(140 × 152)
Displacement - in.^{3}(L)	855	(14)
Compression Ratio	16.3:1	
Firing Order	1-5-3-6-2-4	
Dry Weight		
--Including Flywheel and Generator		
Excluding other Electrial Component - lb. (kg)	3219	(1460)
Wet Weight		
--Engine Only - lb. (kg)	3330	(1510)
Moment of Inertia of Rotating Components		
- With FW2141 flywheel - lb.·ft.^{2} (kg·m^2)	62.4	(4.99)
Center of Gravity from Front Face of Block - in.(mm)	17.7	(575.7)
Center of Gravity Above Crankshaft Centerline - in.(mm)	7.5	(164.6)

ENGINE MOUNTING

Maximum Allowable Bending Moment at Rear Face of Block - lb.·ft. (N·m)	1000	(1356)

EXHAUST SYSTEM

Maximum Allowable Back Pressure - in.Hg (kPa)	3.0	(10)

AIR INDUCTION SYSTEM

Maximum Allowable Intake Air Restriction - in. H2O (kPa)		
--with Dirty Filter Element	25	(6.2)
--with Heavy Duty Air Cleaner and Clean Filter Element	15	(3.7)

COOLING SYSTEM

Coolant Capacity - Engine Only - U.S. gal (L)	3.4	(21)
- With Radiator - U.S. gal (L)	N/A	
Maximum Coolant Friction Head External to Eng -PSI (kPa)	5	(34)
Maximum Static Head of Coolant Above Engine Crank Centerline -ft. (m)	46	(14.0)
Standard Thermostat (Modulating) Range - °F (°C)	180 - 202	(82 - 94)
Minimum Allowable Pressure Cap -PSI (kPa)	7	(69)
Maximum Top Tank Temperature -for Standby/Prime °F (°C)	220/212	(104/100)

LUBRICATION SYSTEM

Oil Pressure @ Idle Speed - PSI (kPa)	15	(103)
@ Governed Speed - PSI (kPa)	30-50	(241-345)
Maximum Allowable Oil Temperature - °F (°C)	250	(121)
Oil Pan Capacity with OP2152 - Low / High - U.S. gal. (L)	7 / 9	(28.4/36.0)
Total System Capacity(with LF9009 Combine Filter) - U.S. gal. (L)	9.7	(38.6)
Angularity of OP2152 OIL PAN		
Rear Down	38°	
Front Down	38°	
Exhaust Side Down	38°	
Fuel Pump Side Down	38°	

FUEL SYSTEM

Type Injection System……		CELECT
Maximum Allowable Restriction to Fuel Pump		
-- With Clean Fuel Filter - in.Hg (kPa)……	4.0	(13.5)
-- With Dirty Fuel Filter - in.Hg (kPa)……	8.0	(27.1)
Maximum Allowable Head on Injector Return Line		
-- With Check Valve - in.Hg (kPa)……	6.5	(22.0)
-- Maximum fuel inlet temperature -°F (°C)……	160.0	(71)

ELECTRICAL SYSTEM

Standard Cranking Motor (Heavy Duty , Positive Engagement） - volt…	24
Standard Battery Charging System , Negative Ground - ampere……	35
Maximum Allowable Resistance of Cranking Circuit - ohm……	0.002
Minimum Battery Capacity-cold soak at -18deg C (0 deg F) or above	
--Engine only-cold cranking ampress: (CCA)……..……	900
--Engine only-reserve capacity: (RC)……..……	320

CRANKING SYSTEM (Cold Starting Capablity)

-- Minimum Cranking Speed for Unaided Cold Start -r/min……	150

PERFORMANCE DATA

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Steady State Stability Band at any Constant Load -%…… +/-0.25

	Standby Power	Prime Power
Governed Engine Speed -rpm ……	1500	1500
Engine Idle Speed -rpm ……	700-800	700-800
Gross Engine Power Output - kW ……	392	358
Engine Water Flow - L/s ……	5	5
Engine Data with Dry Type Exhaust Manifold		
Intake Air Flow - L/s ……	499	430
Exhaust Gas Temperature - °C……	518	510
Exhaust Gas Flow - kg/h……	2205	1899
Heat Rejection to Ambient - kW……	20	18
Heat Rejection to Coolant - kW……	114	127
Heat Rejection to Exhaust - kW……	324	293

Engine Model: QSNT-G
Data Sheet: FR11390
Date: 2016.6.27

CHONGQING CUMMINS ENGINE CO. LTD. CHONGQING, CHINA, 400031

Change Log