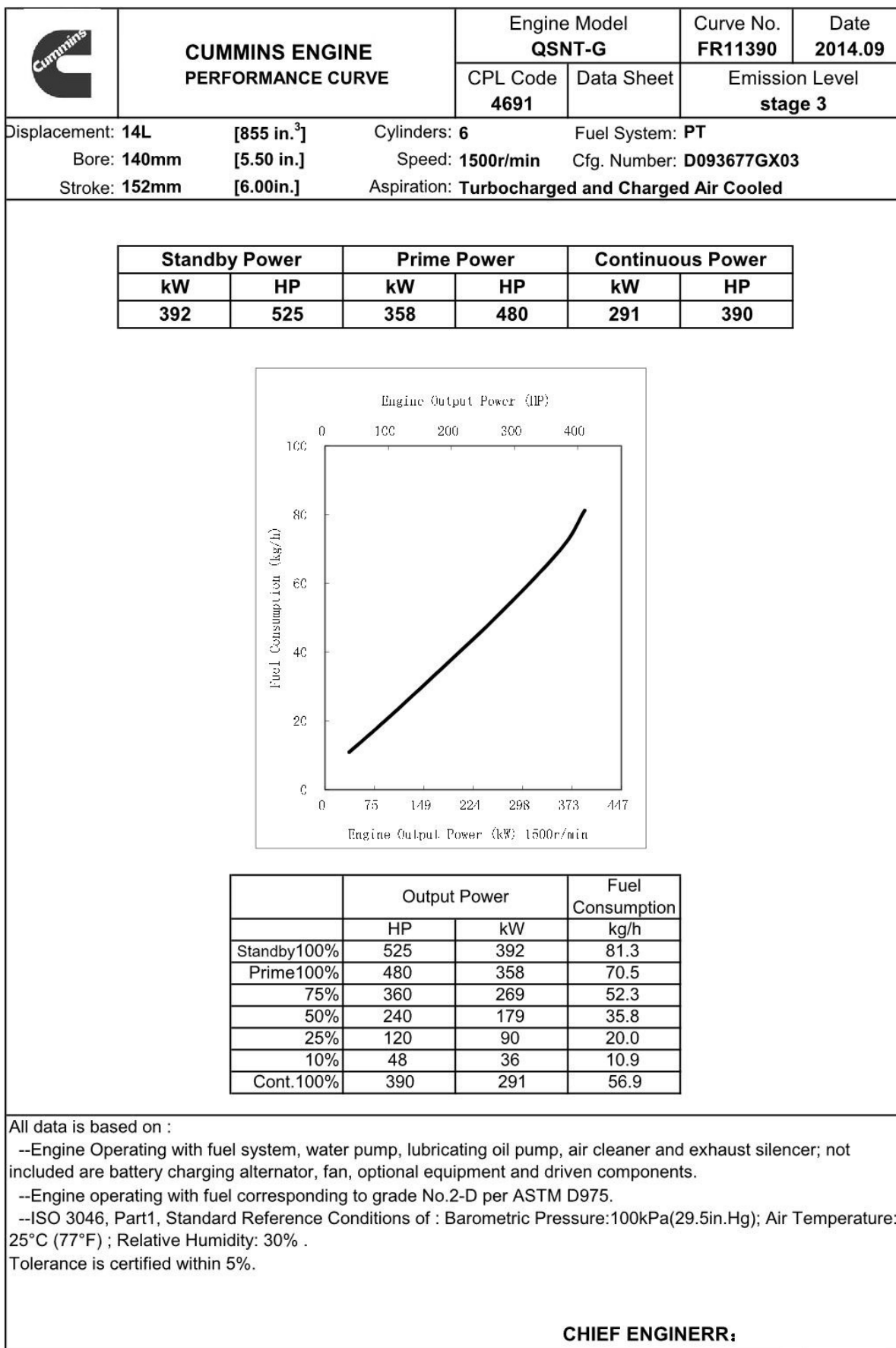






Cummins Engine Co. Ltd.

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
 AspirationTurbocharged and Charge Air Cooled
 Bore x Stroke - in. x in. (mm x mm)..... 5.5 x 6 140 x 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 Electrical 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·m²)..... 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 Engine -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 ampers: (CCA).....	900
--Engine only-reserve capacity: (RC).....	320

CRANKING SYSTEM (Cold Starting Capability)

-- Minimum Cranking Speed for Unaided Cold Start -r/min.....	150
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PERFORMANCE DATA

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 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% .

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

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CUMMINS ENGINE CO. LTD.