:05		CUMMINS INC.	Basic Engine Model	Curve No.	G-Drive
amilia			QST30-G3	FR-5188	Q30
CUITI		Columbus, Indiana 47201			1
			Engine Critical Parts List	Date	
	EXHAUST EMISSIONS DATA SHEET		CPL-2840	14-Feb-06	
No of Cylinders: 12 Aspiration: Turbocharged and Aftercooled					
Bore: 140 mm (5.5	in.)	Stroke: 165 mm (6.50 in.) Displace	ment: : 30.48.0 litre (1860 in ³)		
Emissions Control	devices:	Turbocharged and Aftercooled			

Engine Speed	Standby Power		Prime Po	ower	Continuous Power		
RPM	kWm	BHP	kWm	BHP	kWm	BHP	
1500	895	1200	806	1080	634	850	
1800	1007	1350	910	1220	731	980	

Exhaust Emissions Data @ 1500 RPM

	Standby Power			Prime Power			Continuous Power		
Component	g/BHP-h	mg/m ³	PPM	g/BHP-h	mg/m ³	PPM	g/BHP-h	mg/m ³	PPM
HC (Total Unburned Hydrocarbons)	0.2	95	150	0.19	90	145	0.25	105	165
NOx (Oxides of Nitrogen as NO ₂)	8.91	4560	2225	8.82	4510	2200	8.65	4425	2158
CO (Carbon Monixide)	0.65	315	255	0.68	325	260	0.65	315	255
PM (Particulate Matter)	0.1			0.1			0.1		
SO ₂ (Sulfur Dioxide)									

Exhaust Emissions Data @ 1800 RPM

	Standby Power			Prime Power			Continuous Power		
Component	g/BHP-h	mg/m ³	PPM	g/BHP-h	mg/m ³	PPM	g/BHP-h	mg/m ³	PPM
HC (Total Unburned Hydrocarbons)	0.25	120	195	0.27	125	197	0.25	125	197
NOx (Oxides of Nitrogen as NO ₂)	7.05	3695	1800	6.86	3475	1745	6.88	3625	1764
CO (Carbon Monixide)	0.25	115	92	0.26	120	96	0.22	118	95
PM (Particulate Matter)	0.10			0.10			0.10		
SO ₂ (Sulfur Dioxide)									

Note: mg/m³ and PPM numbers are measured dry and corrected to 5% O₂ content.

This Methods and Conditions:

Steady-State emissions recorded per ISO8178-1 during operation at rated engine speed (+/-2%) and stated constant load (+/-2%) with engine temperatures, pressures and emission rates stabilized.

Fuel Specifications:

46.5 Cetane Number, 0.035 Wt.% Max Sulfur; Reference ISO8178-5, 40CFR86, 1313-98 Type 2-D and ASTM D975 No.2-D. Reference Conditions:

25°C (77°F) Air Inlet Temperature, 40°C (104°F) Fuel Inlet Temperature, 100 kPa (29.53 in Hg) Barometric Pressure; 10.7 g/kg (75 grains H₂0/b) of dry air Humidity (required for NOx correction): Intake Restriction

set to maximum allow-able limit for clean filter; Exhaust Back Pressure set to maximum allowable limit.

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subject to engine-to-engine variability. Tests conducted with

alternate test methods, instrumentation, fuel or reference conditions can yield different results.

Data Subject to Change Without Notice.