	CUMMINS ENGINE COMPANY, INC Columbus, Indiana 47201 EXHAUST EMISSIONS DATA SHEET	Basic Engine Model: **QSX15-G8 4g TA Luft**	Curve Number: **FR-10401**	Page No.
		Engine Critical Parts List: **CPL: 8081**	Date: **19Feb07**	

Displacement : **15** litre (**912** in^3)	Bore : **137** mm (**5.39** in.) Stroke : **169** mm (**6.65** in.)
No. of Cylinders : **6**	Aspiration : **Turbocharged and Aftercooled**
Emissions Control Device : **Turbocharging and Aftercooling**	

Engine Speed	Standby Power		Prime Power		Continuous Power	
RPM	kWm	BHP	kWm	BHP	kWm	BHP
1500	500	670	444	595	317	425
1800	455	610	414	555	295	395

TA-Luft

Engine Emission at prime rating corrected to 5% O_2 content, are in compliance with the following TA-Luft standards:

NOx : 4000 mg/nm^3 **NMHC : 150 mg/nm^3**

CO : 650 mg/nm^3 **Particulates : 130 mg/nm^3**

Test 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 Specification:
40 - 48 Cetane Number, 0.05 Wt.% 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 H_20/lb) of dry air Humidity (required for NOx correction); Intake Restriction set to maximum allowable 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.

EU NRMM (1500 RPM Only)

This engine, tested in accordance with directive 97/68/EC, is in compliance with the EU NRMM Stage II regulations.

	Component	g/BHP-hr	g/kW-hr
NO_x	**(Oxides of Nitrogen**	4.5	6.0
HC	**(Hydrocarbons)**	.75	1.0
CO	**(Carbon Monoxide)**	2.6	3.5
PM	**(Particulate Matter)**	0.15	0.20

Test Methods and Conditions:

Tests to demonstrate compliance with the regulated levels shown above were conducted per 97/68/EC (ref. ISO8178-1) and weighted at load points prescribed in 97/68/EC Annex 3, "test procedures". (ref.ISO8178-4,D2).

Fuel Specifications:
52-54 Cetane Number, 0.03 Max. Wt.% Sulfur; as referenced by directive 97/68/EC.

Reference:
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/lb) of dry air Humidity (required for NOx correction): Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back Pressure set to maximum allowable limit.