

	Cummins Inc Columbus, Indiana 47201	Basic Engine Model: QSK23-G3 Nonroad 1	Curve Number: FR-50011	Page No.
	EXHAUST EMISSIONS DATA SHEET	Engine Critical Parts List: CPL:8352	Date: 29Oct02	
Displacement : 23.15 litre (1413 in³)		Bore : 170 mm (6.69 in.) Stroke : 170 mm (6.69 in.)		
No. of Cylinders : 6		Aspiration : Turbocharged and Air to Air Aftercooled		

Engine Speed RPM	Standby Power		Prime Power		Continuous Power	
	kWm	BHP	kWm	BHP	kWm	BHP
1800	895	1200	809	1085	652	875

US EPA/CARB

This engine, tested in accordance with 40 CFR 89, is in compliance with the 2001 US EPA Nonroad Tier 1 regulations:

Component	g/BHP-hr	g/kW-hr
NO_x (Oxides of Nitrogen)	6.9	9.2
HC (Hydrocarbons)	1.0	1.3
CO (Carbon Monoxide)	8.5	11.4
PM (Particulate Matter)	0.40	0.54

Test Methods and Conditions

Test Methods:

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:

46.5 Cetane Number, 0.035 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 H₂O/lb) of dry air Humidity (required for NO_x 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