

CUMMINS ENGINE COMPANY, INC

Columbus, Indiana 47201

EXHAUST EMISSIONS DATA SHEET

Basic Engine Model: KTA50-G9

Curve Number: FR-6244

Page No.

Engine Critical Parts List:

CPL: 2527

Date: **15Feb01**

Displacement : **50.3** liter (**3067** in³) Bore : **159** mm (**6.25** in.) Stroke : **159** mm (**6.25** in.)

No. of Cylinders : 16 Aspiration : Turbocharged and Low Temperature Aftercooled

Emissions Control Device: Turbocharging, Low Temperature Aftercooling and Step Timing Control (STC)

Engine Speed	Standby Power		Prime Power		Continuous Power	
RPM	kWm	ВНР	kWm	ВНР	kWm	ВНР
1500						
1800	1656	2220	1384	1855	1224	1640

Exhaust Emissions Data @ 1500 RPM

Not Available at 1500 RPM For 1500 RPM (see KTA50-G8)

US EPA/CARB

This engine, tested in accordance with ISO 8178 D2, is in compliance with the Tier 1 Mobile Off-Highway standard.

	Component	g/BHP-hr	g/kW-hr	
NO _x	(Oxides of Nitrogen)	6.9	9.2	
нс	(Hydrocarbons)	1.0	1.3	
СО	(Carbon Monoxide)	8.5	11.4	
PM	(Particulate Matter)	0.40	0.54	

CONVERSIONS: $(g/kWm\cdot h = g/BHP\cdot h \times 1.34)$

Reference Standard: ISO-8178

Data was recorded during steady state rated engine speed (± 25 RPM) with full load (± 2%). Pressures, temperatures, and emission rates were stabilized.

Fuel Specification: ASTM D975 No. 2-D diesel fuel with 0.2% sulfur content (by weight) and 42-50 cetane number.

Fuel Temperature: $99^{\circ} \text{ F} \pm 9^{\circ}$ (at fuel pump inlet)

Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels. Specifications May Change Without Notice.