Californ	is Environmental Protection /	gency
	RESOURCES	BOARD

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2005	5CEXL0359AAG	5.9	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Compressor			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION			EXHAUST (g/kw-hr)				OPACITY (%)		
CLASS	POWER STANDARD CLASS CATEGORY		НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT			6.4	0.6	0.14	5	1	18

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 28^{4} day of November 2005.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form

N-R-002-0305

Cummins Inc.	Nonroad Cl	5CEXL0359AAG
Manufacturer:	Engine category:	EPA Engine Fam i y.

Mfr Family Name: F403 Process Code: New Submission

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 (65.9 DDI TCC CAC EAM 58.3 DDI, TCCCAC
8.F (lbs/hr)
7.Fuel Rate: mm/stroke@peak torque
6.Torque @ RPM (SEA Gross) 521@1810 465@1800
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) 73.4
4.Fuel Rate: mm/stroke @ peak HP (for diesel only) (for diesel only) 99.
3.BHP@RPM (SAE Gross) 235@2400 207@2200
1.Engine Code 2.Engine Model 8108;ER91029 6B5.9 8108;FR91230 6B5.9
1.Engine Code 8108;ER91029 8108;FR91230