California Environmental Protection Agency	Cummins Inc.
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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 ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)			
2005	5CEXL0540AAA	8.8	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Powertrain Control Module			Tractor				

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 POWER	EMISSION		EXHAUST (g/kw-hr)				OPACITY (%)			
CLASS	STANDARD 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			6.1	1.9	0.16	13	12	21

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

_____ day of October 2004.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form ATHACHAENT P3 1001

U-R-002-0203

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Manufacturer: Cummins Inc. Engine category: Nonroad CI EPA Engine Famiy: 5CEXL0540AAA Mfr Family Name: A563

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New Submission

Process Code:

DOT, "PCM, TC, CAC. 8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE J1930 "PCM, TC, / "PCM, TC, "PCM, TC, 93.5 90.2 85.8 70.8 mm/stroke@peak torque 7.Fuel Rate: 198 150 191 182 6.Torque @ RPM (SEA Gross) 1050@1400 1000@1400 950@1400 775@1400 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) 104.2 100.9 89.3 97.7 4.Fuel Rate: mnvstroke @ peak HP (for diesel only) 147 161 150 121 3.BHP@RPM (SAE Gross) 280@2100 280@2000 280@1800 250@2200 2.Engine Model QSL QSL osr QSL 1.Engine Code 8478:FR91079 8478:FR91076 8478;FR91074 8479:FR91080