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		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2004	4CEXL0359ABE	5.9	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	
Direct Dies	el Injection, Turbocharge Powertrain Control N	er, Charge Air Cooler, Iodule	Loader, Tractor, Dozer, Pu	ump, Compressor

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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 STANDARD				EXHAUST (g/kw-ł	nr)		0	PACITY (%	b)
CLASS	CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUĠ	PEAK
130 <u><</u> kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		FEL	N/A	N/A	6.4	N/A	0.15	N/A	N/A	N/A
		CERT			5.7	0.6	0.10	11	2	23

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 ____/0 TH day of December 2003.

Allen Joons, Chief Mobile Source Operations Division

Engine Model Summary Form मित्तयराग्सहर्फ्ता हि, (हर्म ।

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Cummins Inc.

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Nonroad Over 50 Hp 4CEXL0359ABE Engine category:

Manufacturer:

Mfr Family Name: D403 EPA Engine Family.

New Submission Process Code:

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (ibs/hr)@peak torque	9.Emission Control b Device Per SAE J1930
8041,FR90848	QSB5.9-C	240@2500	105	88.5	730@1500	142	71.6 DAY	x_{x} Pom, To, Cao 🦼
8110;FR91103	QSB5.9-C	240@2500	105	88.3	730@1500	142	71.6	PCM, TC, CAC
8040,FR90847	QSB5.9-C	275@2500	119	100.3	730@1500	140	20.6	PCM, TC, CAC
8107,FR90852	OSB5,9-C	215@2200	104	77.2	692@1500	134	68.0	PCM, TC, CAC
8107;FH90854	QSB5.9-0	205@2200	66	73.7	685@1500	EE1	67.4	PCM, TC, CAC
8169;FR90857	QSB5.9-C	190@2200	63	68,9	658@1500	127	64.3	PCM, TC, CAC
8169;FR90860	QSB5.9-C	180@2200	88	65.6	624@1500	•123	61.7	PCM, TC, CAG
8090,FH90856	QSB5.9-C	185@2400	85	68,8	548@1400	109	51,5	PCM, TC, CAC
8113;FH90930	0285.9-0	220@2500		81.8	670@1500	132	66.8	PCM, TC, OAG
8113;FR90851	QSB5.9-C	215@2500	95	80.3	655@1500	129	65,1	PGM, TĆ, CAC
B113;FR90853	0.885.9-0	205@2500	91	76.7	625@1500	123	62.2	PCM, TC, CAC
8112;FR90849	QSB5.9-C	240@2200	117	86.9	652@1500	132	6.9	PCM, TC, CAC
8112;FR90850	QSB5.9-C	230@2200	112	83.0	652@1500	132	66.8	POM, TO, CAC
8254,FR9900	QSB5.9-C	240@2400	601	88.4	730@1500	142	71.6	PCM, TC, CAO
8384;FB91040	Q\$B5.9-C	220@2300	102	79.4	660@1500	118	59.9	PCM, TO, CAO
8385;FR90858	Å\$B5:9-C	192@2300	92	71.1	580@1500	110	55.8	PCM, TO, CAC
8112;FR91207	QSB5.9-C	217@2000	116	78,4	660@1500	131	66.5. 🗸	🖊 PĜM, TC, ĈAQ 🖡 🔍

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