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-45-9;

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)		
2001	1CEXL0239ACA	3.9	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Dies	el Injection, Turbocharg	er, Charge Air Cooler	Crane, Loader, Tractor, Dozer, Pump, 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 CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 <u><</u> KW < 130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		FEL		8.9			0.27			
		CERT		8.3			0.12	16	1	42

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.

This Executive Order hereby cancels and replaces Executive Order U-R-002-0085-1 dated October 1, 2001.

Executed at El Monte, California on this <u>2414</u> day of October 2001.

R. B. Summerfield, Chief

R. B. Summerfield, Chief Mobile Source Operations Division

ATTACHMENT

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Engine Model ^ 'mmary Form

U-R-002-0085 L

89.5A

Manufacturer:	Cummins Engine Company
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Engine category: Nonroad Over 50 Hp

EPA Engine Family: 1CEXL0239ACA

Mfr Family Name: A383

Process Code:

Now Submission FEL charge

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
1963;FR90021	B3.9-C	130@2500	90	50,6	350@1500	100	33.6	DDT TC CAC
2264;FR90022	B3.9-C	125@2200	94	46,4	350@1500	102	34.3	
2264;FR90389	B3,9-C	125@2300	94	48,7	350@1500	101	34.2	TC
2109;FR90023	B3.9-C	116@2500	83	46.6	306@1500	89	30.1	ТС
2109;FR90487	B3,9-C	116@2500	83	46.6	300@1500	89	30.1	TC
2109;FR90283	B3.9-C	110@2200	84	41.5	333@1500	98	33.0	тс
2109;FR90325	B3.9-C	107@2100	83	39.0	333@1500	98	33.0	TC
2109;FR90135	B3.9-C	107@2100	86	40.7	328@1500	97	32.8	тс
2351;FR90024	B3.9-C	110@2200	83	40.9	332@1500	98	33.0	TC
2109;FR90347	B3.9-C	116@2500	83	46,4	306@1500	88	29.7	тс
2528;FR90494	B3.9-C	107@2100	83	39.0	335@1500	99	33.3	TC
2109;FR90678	B3.9-C	112 @ 2300	81	42.1	345 @ 1500	102	34.3	V TO V