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	Cummins Inc.	EXECUTIVE ORDER U-R-002-0124 New Off-Road Compression-Ignition Engines
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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-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)
2002	2CEXL0239AAA	3.9	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION		
Direct Diesel Injection		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):

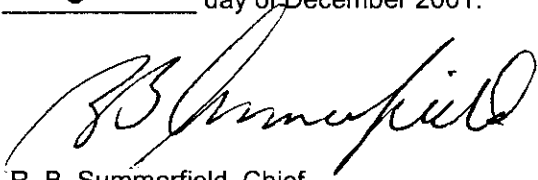
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		FEL	N/A	8.6	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	--	7.8	--	--	--	5	8	8

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 6th day of December 2001.



R. B. Summerfield, Chief
Mobile Source Operations Division

U-R-002-012

Manufacturer: Cummins Inc.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 2CEXL0239AAA
 Mfr Family Name: A381
 Process Code: New Submission

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mmv/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: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
2361;FR90124	B3.9-C	80@2500	61	34.1	201@1200	67	18.1	DDI, EM
2361;FR90344	B3.9-C	80@2500	61	34.1	201@1200	67	18.1	EM
2361;FR90482	B3.9-C	74@2500	53	30.0	201@1200	61	16.5	EM
2486;FR90418	B3.9-C	75@2200	61	30.2	201@1200	65	17.5	EM
2145;FR90394	B3.9-C	57@1750	53	21.0	184@1200	56	15.2	EM
2361;FR90734	B3.9-C	80@2500	61	34.1	201@1200	67	18.1	EM
2567;FR90517	B3.9-C	60@2200	48	23.9	171@1200	54	14.5	EM
2568;FR90518	B3.9-C	67@2200	53	26.4	194@1200	62	16.7	EM
8100;FR91032	B3.9-C	74@2500	53	30.0	201@1200	61	16.5	EM