

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)
2003	3CEXL0239AAC	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	--	7.6	--	--	--	4	7	7

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 12TH day of November 2002.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

APPENDIX B 1001

LL-R-002-0165

Manufacturer: Cummins Inc.
 Engine category: Nonroad Over 50 Hp
 EPA Engine Family: 3CEXL0239AAC
 Mfr Family Name: C381
 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 diesel only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mmv/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
2599;FR90612	B3.9-C	75@2200	61	30.2	201@1200	62	16.7	DDI, EM
2599;FR90611	B3.9-C	80@2500	58	32.6	201@1200	62	16.7	DDI, EM
2599;FR90542	B3.9-C	80@2500	58	32.6	193@1200	62	16.7	DDI, EM
2599;FR90543	B3.9-C	75@2200	61	30.2	201@1200	62	16.7	DDI, EM
2599;FR90880	B3.9-C	67@2200	62	25.8	188@1200	59	15.9	DDI, EM
2601;FR91117	B3.9-C	60@2200	45	22.5	171@1200	51	13.9	DDI, EM
2601;FR91118	B3.9-C	60@2000	50	22.7	177@1200	54	14.5	DDI, EM
2601;FR91119	B3.9-C	54@2000	46	20.7	173@1200	52	14.1	DDI, EM