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)
2004	4CPXL15.8ERK	15.8	Diesel	8000
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A	PPLICATION
Direct Dies	sel Injection, Turbocharg and Engine Control	er, Charge Air Cooler Module	Generator	

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			E	EXHAUST (g/kw-ł	ır)		0	PACITY (%	6)
CLASS	CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
KW > 560	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	N/A	N/A	N/A
		FEL	N/A	N/A	N/A	N/A	0.16	N/A	N/A	N/A
		CERT	0.1	8.2		0.6	0.06			

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

day of December 2003.

Allen Lons, Chief Mobile Source Operations Division

Engine Model Summary Form

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ATTACHMENT 1 OF 1

CATERPILLAR INC. Nonroad Over 50 Hp

Engine category:

Manufacturer:

1-R-001-0243

Mfr Family Name: NA

EPA Engine Family: 4CPXL15.8ERK

Process Code: New Submission

						I'L DEL VOIE	-	-
1.Engine Code 2.Engine Model	2.Engine Model	3.BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930
1-Cert Engine	3456/C-16	752 @ 1500	482	245.6	N/A	N/A	N/A	EM, DI, TC, ECM, CAC
2	3456/C-16	800 @ 1800	437	264.6	N/A	N/A	N/A	EM, DI, TC, ECM, CAN
e	3456/C-16	772 @ 1800	429	259.5	N/A	N/A	N/A	EM, DI, TC, ECM, Ar
4	3456/C-16	772 @ 1800	429	259.5	N/A	N/A	N/A	EM, DI, TC, ECM, CAC

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