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)	
2006	6CEXL019.AAD	19.0	Diesel	8000	
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A	PPLICATION	
Engine Control Module, Direct Diesel Injection, Turbocharger, Charge Air Cooler			Loader and Dozer		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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	EMISSION	·		E	EXHAUST (g/kw-l	nr)		OF	ACITY (%	(o)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
225 <u><</u> kW < 560	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.6	1.8	0.16	14	4	21

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

Allen Lyons, Chief

Mobile Source Operations Division

day of April 2005.

Engine Model Summary Form Ankkhहार ह_{े । ०}६।

U-R-00-3-1

Cummins Inc. Manufacturer:

Nonroad Cl Engine category:

6CEXL019.AAD EPA Engine Family.

Mfr Family Name: D193

New Submission Process Code:

930	1	4	4	4
9.Emission Control Device Per SAE J193	DDI,TC,EC,CA	DDI,TC,EC,CA	DDI,TC,EC,CA	DDI,TC,EC,CA
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	231	227	214	175
7.Fuel Rate: mm/stroke@peak torque	457	449	453	399
6.Torque @ RPM (SEA Gross)	2200@1500	2100@1500	2100@1500	1844@1200
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	281	263	247	193
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	417	390	407	318
3.BHP@RPM (SAE Gross)	750@2000	700@2000	675@1800	506@1800
2.Engine Model	QSK19-C	QSK19-C	QSK19-C	QSK19-C
1.Engine Code	8533:FR4431	8533:FR4416	8533:FR4430	8719:FR4426