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)				
2007	7CEXL060.AAB	60.0	Diesel					
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION					
Direct Dies	sel Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Mine Truck					

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 POWER CLASS	EMISSION STANDARD CATEGORY			E	XHAUST (g/kw-l	OPACITY (%)				
			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT			6.0	1.1	0.10	15	5	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

_ day of November 2006.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Cummins Inc. Manufacturer:

Engine category:

Nonroad Cl 7CEXL060.AAB EPA Engine Family.

Mfr Family Name: C593

New Submission Process Code:

9.Emission Control Device Per SAE J1930	DDI,ECM,TC,CAC	DDI,ECM,TC,C	DDI,ECM,TG,C	DDI,ECM,TC,C 🖟	DDI,ECM,TG,CV	3.10m	DDI,ECM,TC,CAC	DDI,ECM,TC,C	DDI,ECM,TC,C	DDI,ECM,TC,C	DDI,ECM,TC,C∜
	DDI,E	DDI,E	- DDI,E	3100 ·	j DDI, E		ajida	DDI,E	DDI,E	Bida	= DDI,E
8.Fuel Rate: (lbs/hr)@peak torque	. 757.0	698.0	592.0	. 592.0	🖏 🗼 713.0		705.9		. 592.0		: 0.869 · : : : : : : : : : : : : : : : : : :
7.Fuel Rate: mm/stroke@peak torque	561	518	:439	439	529		523	439	439	445	517
6.Torque @ RPM (SEA Gross)	7840@1500	7257@1500	6189@1500	6169@1500	7257@1500		7257 @ 1500	6169 @ 1500	°6169 @ 1500	6169 @ 1500	7257 @ 1500
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	.*. 926.0	858.0.	0.889	· 669.0			% 871.2 S	688.0			767.0
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	542	502	425	416	473 %		510	425	416	7,411	474
3.BHP@RPM (SAE Gross)	\$2700@1900	2500@1900	**2000@1800	1944@1800	2250@1800		\$2500 @ 1900	2000 @ 1800	1944 @ 1800	1944 @ 1800	2250 @ 1800
2.Engine Model	OSK60-C	OSK60-C	OSK60.C	OSK60-C	* OSK60-C		OSK60-C	OSK60-C	QSK60-C.	QSK60.C.	QSK60-C
1.Engine Code	8593 FR6471	8593.FR6505 »	0208:FR6508	0208:FR6509	8593 FR6506		1773.FR \$513	1773.FR6508	1773:FR6509	2766:FR6614	2763.FH6619