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	4CEXL015.AAA	15.0	Diesel	8000				
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION					
Direct Dies	el Injection, Turbocharge Powertrain Control N	er, Charge Air Cooler, Iodule	Loader, Tractor, and Other in	ndustrial Equipment				

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-ł	OPACITY (%)				
			нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 <u><</u> kW <u><</u> 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL	N/A	N/A	N/A	N/A	0.14	N/A	N/A	N/A
		CERT			5.8	0.4	0.07	15	1	42

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.

This Executive Order hereby cancels and replaces Executive Order U-R-002-0216 dated August 7, 2003.

Executed at El Monte, California on this ______ day of July 2004.

Allen Loons, Chief Mobile Source Operations Division

Engine Model Summary Form אדואסטאענשעד וישן ו אייי ו

1-9120-200-7-M

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Manufacturer: Cummins Inc. Engine category: Nonroad Cl EPA Engine Famiy. 4CEXL015.AAA Mfr Family Name: A103

New Submission

Process Code:

0	*														
9.Emission Control Device Per SAE J1930	PCM TC CAC	PCM TC CAC	PCM.TC.CAC	PCMTC CAC	PCM TC CAC	PCM TC CAC	PCM TO CAG	PCM TC CAC	PCM TO CAO	PCM TO CAO	DCM TO CAO		a i papatri		
8.Fuel Rate: (lbs/hr)@peak torque_D	177.1 MJ		196	168.1	197.0	168.5	177.1	1771	162.0	177 1	164.2	107	160 041		
и.г.uei наte: mm/stroke@peak torque	375	417	415	356	417	357	375	375	343	375	327	417	339		
6.Torque @ RPM (SEA Gross)	1743@1400	2050@1400	2050@1400	1743@1400	2050@1400	1730@1400	1743@1400	1743@1400	1706@1400	1743@1400	1625@1400	2050@1400	1806@1400		
5.Fuel Hate: (lbs/hr) @ peak HP (for diesels only)	172.4	199	208	154.3	190.5	187.2	183.7	168.2	178.4	171.1	158.3	219.0	186		
4.ruer Hate: mrvstroke @ peak HP (for diesel only)	243	328	294	254	314	264	259	238	252	242	261	309	263		
3.BHP@RPM (SAE Gross)	500@2100	600@1800	600@2100	460@1800	560@1800	540@2100	525@2100	475@2100	530@1800	510@1800	475@1800	635@2100	535@2100		
2.Engine Model	QSX15-C														
1.Engine Code	2825.FH10310	2825:FR10318	2825:FR10320	2825:FR10342	2825;FR10375	2825:FR10376	2825;FR10377	2825:FR10378	2825:FR10381	2825:FR10383	2825:FR10465	2825:FR10491	2825;FR10458		