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;

Pursuant to the July 1, 1999 Settlement Agreement (SA) between ARB and the Manufacturer, and any modifications thereof to the Settlement Agreement;

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 I						
2005	5CEXL0540AAB	8.8	Diesel	8000					
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Direct Dies	sel Injection, Turbocharge Engine Control Mo	er, Charge Air Cooler, odule	Crane, Loader, Tractor, Dozer,	Pump and Compressor					

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	XHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.9	3.2	0.16	5	2	13

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 2004.

Allen Lyons, Chief

Roplace Sumair

Mobile Source Operations Division

Engine Model Summary Form ਜੇਂगੁਜਿਕਮੁਵਿਨਾ ਕਿ । • +।

Manufacturer: Cummins Inc.
Engine category: Nonroad CI

EPA Engine Family: 5CEXL0540AAB

Mfr Family Name: B563

Process Code: Running Change

U-R-002-0293

9.Emission Control Device Per SAE J1930	ECM. TC. CAC	ECM, TC, CAC	ECM. TC. CAC	ECM, TC, CAC	ECM TC CAC	TC, CAC	TC CAC	ECM, TC, CAC	ECM, TC. CAC	ECM, TC, CAC					
	۶	1 -		_		1					6 ECM.				
8.Fuel Rate: (!bs/hr)@peak torque	93.6	110.1		102.2	102.2	99.1	106.2	107.7	113.0	113.0	102.6	NA	NA	100.1	
7.Fuel Ra te : mm/stroke@peak torque	185	218	218	202	216	210	210	213	223	223	217	AN N	NA	212	
6.Torque @ RPM (SEA Gross)	1120@1500	1120@1500	1120@1500	1113@1500	1109@1400	1000@1400	1010@1500	1050@1500	1120@1500	1120@1500	1095@1400	W	NA	1070 @ 1400	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	113.4	134.1	134.1	136.1	117.4	109.9	120.4	124.6	135.8	135.8	125.2	133.2	8.707.8	110.3	
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	160	189	189	192	1,14	163	170	176	192	192	206	219	213	164	
3.BHP@RPM (SAE Gross)	350@2100	350@2100	350@2100	365@2100	305@2000	280@2000	300@2100	325@2100	350@2100	350@2100	345@1800	364@1800	310@1500	280 @ 2000	
2.Engine Model	TSO.	OSL	JSD	OSL	JSD	OSL	TSD	OSL	JSD	OSL	JSO	QSL9-G2		QSL	
1.Engine Code	8548;FR91672	8548;FR91672	8643;FR91520	8641;FR91518	8647;FR91689	8650;FR91527	8647;FR91524	0401;FR91674	8548;FR91672	8643;FR91520	0400;FR91673	8695;FR91546	8695;FR91546	0422;FR91709	