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 December 15, 1998 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 LIFE (hours)		
2005	5CEXL0661AAF	10.8	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direct Dies	el Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Crane, Loader and C	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 STANDARD		EXHAUST (g/kw-hr)					OPACITY (%)		
CLASS	CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
225 <u><</u> kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.8	0.9	0.10	17	1	34

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-002-0252 dated May 27, 2004.

Executed at El Monte, California on this _____9 ____ day of July 2004.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Sy mary Form

1-2520-200-2-n

Manufacturer:Cummins Inc.Engine category:Nonroad ClEPA Engine FamMy:5CEXL0661AAFMfr Family Name:F353Process Code:New Submission

9.Emission Control evice Per SAE J1930	DOX, TC, EC, CAC	TC,EC,CAC	TC,EC,CAC	TC,EC,CAC	TC,EC,CAC	rc,ec,cac	
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	139.9 DOZ T	124.5 I T	139.9 T	13 <u>9.9</u> T	139.9 T	139.9 U T	
7.Fuel Rate: mm/stroke@peak 8.F torque (ibs/hr)(296	264	296	296	296	296	
7.F 6.Torque @ RPM mm/s (SEA Gross)	1400@1400	1260@1400	1400@1400	1400@1400	1400@1400	1400@1400	
5.Fuel Rate: (Ibs/In) @ peak HP 6. (for diesels only)	146.4	129.9	147.5	147.5	147.5	139.9	
4.Fuel Rate: mm/stroke @ peak HP ((for diesel only)	241	214	208	208	208	198	
3.BHP@RPM (SAE Gross)	400@1800	360@1800	400@2100	400@2100	400@2100	375@2100	
2.Engine Model	QSM11-C	QSM11-C	QSM11-C	QSM11-C	QSM11-C	QSM11-C	
1.Engine Code	8495:FR20002	8495:FR20026	8471:FR20001	8471:FR20003	8471:FR20004	8471:FR2999	