California Environmental Protection Agency					
AIR RESOURC	ES BOARD				

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	ENGINE FAMILY DISPLACEMENT (liters) FUEL TYPE		USEFUL LIFE (hours)			
2004	4CEXL0275AAC	4.5	Diesel	8000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Direct Diesel Injection, Turbocharger			Crane, Loader, Tractor, Dozer, Pump, Compressor				

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-hr)				OPACITY (%)			
			HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u><</u> kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		FEL	N/A	N/A	7.3	N/A	N/A	N/A	N/A	N/A
		CERT			4.9	1.4	0.21	4	2	9

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-002-0232-2 dated July 8, 2004.

Executed at El Monte, California on this

____ day of December 2004.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model 5 nmary Form

ATTA MENT 1 OF 1

Manufacturer:Cummins Inc.Engine category:Nonroad Over 50 HPEPA Engine Famity4CEXL0275AACMfr Family Namo:C852Process Codo:New Submission

W-R-002-0232-3

		4		n a na		
	8.Fuel Rate: 9.Emission Control bs/ht/@peak torque Device Per SAE J1930	33,7 DDI,TC,EM ▲	DDI,TC,EM	:	DDI, TC, EM	
	8.Fuel Rate: (lbs/hr)@peak torque	33.7	33.0	33.0	32.4	
7.Fuel Rale;	mn/stroke@peak torque	100	98	98	90	
	6.Torque @ APM (SEA Gross)	305@1500	305@1500	305@1500	300@1500	
5.Fuel Rate:	(Ibs/hr) @ peak HP (for diesels only)	41.5	42,1	41.0	38.1	
4.Fuel Rate:	mrr/stroke @ peak HP (for diesel only)	88	76.		11	
	3.BHP@RPM (SAE Gross)	99@2100	99@2500	99@2200	92@2200	
	.Engine Code 2.Engine Model	BT4.5-C	8204;FR91169 BT4.5-C 99@2500	BT4.5-C	BT4.5-0	
	I.Engine Code	8204;Fh91276 BT4.5-C	8204,FR91169 E	8204;FR91170 BT4.5-C 99@2200	8204[FB91171	