CUMMINS INC.

EXECUTIVE ORDER U-R-002-0353
New Off-Road
Compression-Ignition Engines

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)						
2006	6CEXL2.28A41	2.286	Diesel	8000						
	FEATURES & EMISSION (TYPICAL EQUIPMENT APPLICATION							
lı	ndirect Diesel Injection, T	urbocharger	Crane, Loader, Tractor, Dozer, Pump, Compressor and Oth Industrial Equipment							

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-i	nr)		OF	PACITY (%	(%)	
POWER CLASS	STANDARD CATEGORY	_	HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK	
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50	
37 ≤ kW < 75	Tier 2	ŞTD	N/A	N/A	7.5	5.0	0.40	20	15 .	50	
		CERT			6.5	1.5	0.17	8	6	15	

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 April 2006.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form ATTACKMENT PS 10+1

CUMMINS Inc. Manufacturer:

Nonroad Cl Engine category:

6CEXL2.28A41 EPA Engine Family:

New Submission Mfr Family Name: A2300 Process Code:

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9.Emission Control Device Per SAE J1930	IDI,EM,TC	IDI,EM,TC	IDI,EM,TC			******				,						
8.Fueł Rate: (łbs/hr)@peak torque De	16.1	N/A	N/A													
7.Fuel Kate: mm/stroke@peak torque	44.7	NA	N/A													
6.Torque @ RPM (SEA Gross)	134.2@1600	NA	N/A													
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	24.8	18.3	16.4		**************************************		***					č				
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	39.4	46.4	41.5	57.00												
3.BHP@RPM (SAE Gross)	60@2800	45.6@1800	40.1@1800												5	
2.Engine Model	A2300	4AT2.3-G1	4AT2.3-G1													
1.Engine Code	FR35001	FR35011	FR35020												10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	