Californ	ia Environmental Protection .	Agency
AIR	RESOURCES	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	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2005	5CPXL08.8ESL	8.8	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT AP	
Direct Die	sel Injection, Turbocharg and Engine Control I	er, Charge Air Cooler Module	Industrial Equipr	nent

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	nr)		OF	PACITY (%	a)
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
130 <u><</u> KW< 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT			5.7	2.2	0.15	7	2	12

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 2005.

Raphael Summart

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form

ATTACHPTENTIOFI

Engine category: Nonroad Over 50 Hp EPA Engine Family: 5CPXL08.8ESL Manufacturer: CATERPILLAR INC.

Mfr Family Name: NA

Process Code: New Submission

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1-02	
R-00	
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	o Enaine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel onlv)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torqu	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930
1.Engine Code								
1 Cert Engine 2 3 5	ប៉ឺ ប៉ឺ ប៉ឺ ប៉ឺ ប៉ឺ	281@2100 281@2100 263@2100 243@2100 228@2100	131 131 119 112	92.7 92.7 88.3 78.7 78.7	1005@1400 1005@1400 936@1400 863@1400 811@1400 811@1400	201 204 176 164	94.6 94.6 83.1 81.2 77.1	EM.DI, IC, ECM, CAC EM.DI, TC, ECM, CAC EM.DI, TC, ECM, CAC EM.DI, TC, ECM, CAC EM.DI, TC, ECM, CAC

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