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 engines 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)		
2004	4HZXL0.69SV1	0.69	Diesel	3000	
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT		
	Direct Diesel Injec	ction	Pump, Generator Set, Other I	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 POWER	EMISSION STANDARD			E	EXHAUST (g/kW-ł	יר)		0	PACITY (%	6)
CLASS	CATEGORY		НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
kW < 8	Tier 1	STD	N/A	N/A	10.5	8.0	1.0	20	15	50
		CERT		-	7.4	5.5	0.3	2	5	5

**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 September 2004.

Allen Lyons, Chief Mobile Source Operations Division

Attachment 1 & MPAINZ-HU U-17034-0060 ſ

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Cr

4HZXL0.69SV1

		KAIEU SPEEU	ī	ruel kałe		NO1		TORQUE SPEED	FUEL RA	TE AT MAX	FUEL RATE AT MAX. TORQUE	<del>ر</del> ر
[du]	[MM]	[rpm]	[mm**3/H]	[tbs/hr]	[KG/h]	[mm]	[1]	[rpm]	[H/6***mm]	[lbs/hr]	[KG/h]	<b>,</b>
10,5	36	2050	19,0	1,4	2,0	38	28	1800	20,0	1,3	1,8	IFN DUT
 10,2	36	2000	19,0	1,3	1,9	38	28	1800	20,0	1,3	1,8	

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4HZXL0.69SV1.xis

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