EXECUTIVE ORDER U-R-035-0044 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)
2003	3MVXL02.3CCC	2.3	Diesel	5000
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A	PPLICATION
	Indirect Diesel Inje	ction	Tractor and 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			- 1	EXHAUST (g/kw-i	ır)		O	PACITY (%	6)
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 <u><</u> KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		CERT			4.2	2.2	0.33	4	2	7

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 January 2003.

Allen Lyons, Chief

Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Surmary Form

Manufacturer: Mitsubishi Heavy Industries, Ltd.

Engine category: Nonroad CI

EPA Engine Farniy...3MVXL02.3CCC

Mfr Family Name: K4N

Process Code: New Submission

U-R-035-0044

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Ì			106.3@1600	19.6		0002@15.01		I A MARCH
1	MIN	33.5	0001000			16.4@acaa	KAN.	K4N-Y1B
000				18.8	33.0	46.4@2600	KAN	WI LIMIT
2000	Dovice Par SAE 1197	(lbs/	(SEA Gross)	(ror circuits only)	((LINKY MARKET
•	0 Emircian Casta	mm/shoko@peak 8,Fue) Bate:	6.Torque @ RPM	(losala) en poak Hir	flor despland)	(SAE Gross)	2.Engine Model	1.Engine Code
		7.Fuel Rate:		SOURT TOURS	mm/droke to near tro	Mallogalitic		
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