California 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)
2003	3TKXL02.5BAA	2.5	Diesel	8000
SPECIAL F	EATURES & EMISSION	CONTROL SYSTEMS		PPLICATION
	Indirect Diesel Inje	ction	Forklift	

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			EXHAUST (g/kw-hr) OPACITY (%)				ó)		
CLASS	CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u><</u> KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT		3.5				17	15	33

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 October 2002.

Allen Lyons, Chief Mobile Source Operations Division

ATTACHNENT R3 1 of 1 Engine Model Summary Form

Mazda Motor Corp. Engine category: Nonroad Cl EPA Engine Farrly: 3TKXL02.5BAA Manufacturer:

U-R-032-0008

New Submission Mfr Famity Name: NA Process Code:

B.Fuel Rate: 9.Emission Control bs/hr/@peak torque Device Per SAE J1930	NA XA 51 @ 2600 44.6 @ 51 25.95 @ 51 109 @ 1600 41.9 @ 109 15.00 @ 109 Mechanical MF1
8.Fuel Rate: (Ibs/hr)@peak torque	15.00 @ 109
7.Fuel Rate: mm/stroke@peak lorgue	41.9 @ 109
6.Torque @ RPM (SEA Gross)	25.95 @ 51 109 @ 1600 4
5.Fuel Rale: (Ibs/hr) @ peak HP (for diesels only)	25.95 @ 51
4.Fuel: Rate: 5.Fuel Rate: mm/stroke @ peak ttP (Ibs/hr) @ peak HP (for diesel only) (for diesels only)	51 @ 2600 44.6 @ 51
3.BHP@RPM (SAE Gross)	51 @ 2600
2.Engine Model	ΥX
1.Engine Code 2.Eng	NA

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