ISEKI MATSUYAMA MFG. CO., LTD.

EXECUTIVE ORDER U-R-038-0013 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	3ICLL1.43C3B	1.43	Diesel	3000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ction	Tractor			

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 (%)			
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	РМ	ACCEL	LUG	PEAK
8 <u><</u> KW<19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
		CERT			6.2	0.9	0.19	4	4	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 January 2003.

Allem Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT 1 OF 1

ISEKI MATSUYAMA MFG. CO., LTD. Manufacturer:

Nonroad Cl Engine category:

EPA Engine Family. 3ICLL1.43C3B

Mfr Family Name: NONE

4-6-038-0013

Process Code:

New Sub - continued

mm/stroke@peak B. Fuel Rate: 9. Emission Control torque (lbs/hr)@peak torque Device Per SAE J1930 28.9@61.8 7.8@61.8 IFI	
Stroke@peak forque 28.9@61.8	
Stroke@pe torque 28.9@61.	
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61.8@1600 61.8@1600	
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(lbs/hr) @ peak HP (for diesels only) 10.7@25.3	and the same of th
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4. Fuel Rate: mm/stroke @ peak t (for diesel only) 25.4@25.3	
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3.BHP@RPM (SAE Gross) 25.3@2500	
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2.Engine Model	
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1.Engine Code	