ISEKI MATSUYAMA MFG. CO., LTD.

EXECUTIVE ORDER U-R-038-0056 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)			
2007	76CLL2.20C4E	2.197	Diesel	5000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Indirect Diesel Injection			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	EMISSION		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	СО	₽M	ACCEL	LUG	PEAK
19 <u><</u> KW<37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			6.3	0.9	0.18	1	2	2

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 _____2/5f___ day of December 2006.

Annette Hebert, Chief

Mobile Source Operations Division

ATTACHMENT 1 OF!

Engine Model Summary Form

4-8-038-0056

ISEKI MATSUYAMA MFG. CO., LTD. Manufacturer:

Engine category: Nonroad CI
EPA Engine Family. 7ICLL2.20C4E
Mfr Family Name: NONE

New Sub - continued Process Code:

9.Emission Control Device Per SAE J1930	
8.Fuel Rate: (lbs/hr)@peak torque	12.2@105.4 12.5@104.4 12.3@102.9
uu l	37.0@104.4 37.0@104.4 37.0@104.4 38.4@102.9
.9	106.2@1500 104.4@1560 104.4@1560 102.9@1560
ق ع	19.9@47.6 19.9@47.0 19.2@47.0
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	35.3@47.6 34.2@47.0 34.2@47.0
3.BHP@RPM (SAE Gross)	47.0@2500 47.0@2500 42.2@2500
1.Engine Code 2.Engine Model	E40G E40G E40G
1.Engine Code	NA NA NA