

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	7CLL2.96D4H	2.955	Diesel	8000
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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37≤KW<75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	--	--	4.0	0.9	0.27	4	4	6

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 21st day of December 2006.

Raphael Samowitz
 for Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: ISEKI MATSUYAMA MFG. CO., LTD.
 Engine category: Nonroad CI
 EPA Engine Family: 7ICLL2.96D4H
 Mr Family Name: NONE
 Process Code: New Submission

UR-038-0060

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
N/A	E4DE	59.1@2600	46.5@59.1	26.6@59.1	136@1500	48.3@136	15.9@136	IFI
N/A	E4DE	54.9@2500	43.2@54.9	23.8@54.9	132@1500	46.6@132	15.3@132	IFI
N/A	E4DE	52.1@2500	40.4@52.1	22.2@52.1	128@1500	44.5@128	14.7@128	IFI
N/A	E4DE	55.3@2500	44.1@55.3	23.7@55.3	134@1500	48.2@134	15.6@134	IFI
N/A	E4DE	50.4@2500	39.3@50.4	21.1@50.4	123@1500	42.7@123	13.8@123	IFI
N/A	E4DE	55.3@2600	42.8@55.3	24.0@55.3	133@1500	47.3@133	15.3@133	IFI

Engine Model Summary Form

Manufacturer: **ISEKI MATSUYAMA MFG. CO., LTD.**
 Engine category: **Nonroad CI**
 EPA Engine Family: **7ICLL2.96D4H**
 Mfr Family Name: **NONE**
 Process Code: **Running Change**

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
N/A	E4DE	59.1@2600	47.2@59.1	27.0@59.1	135.7@1500	49.3@135.7	16.2@135.7	IFI
N/A	E4DE	54.9@2500	43.4@54.9	23.9@54.9	132.0@1500	47.5@132.0	15.7@132.0	IFI
N/A	E4DE	52.1@2500	40.9@52.1	22.5@52.1	128.3@1500	44.7@128.3	14.7@128.3	IFI
N/A	E4DE	55.3@2500	44.3@55.3	23.8@55.3	134.2@1500	49.1@134.2	15.8@134.2	IFI
N/A	E4DE	50.4@2500	39.9@50.4	21.5@50.4	123.2@1500	43.4@123.2	14.0@123.2	IFI
N/A	E4DE	55.3@2600	43.2@55.3	24.2@55.3	132.8@1500	48.0@132.8	15.5@132.8	IFI
N/A	E4DE	56.8@2600	44.5@56.8	25.1@56.8	132.0@1800	48.7@132.0	19.0@132.0	IFI