 AIR RESOURCES BOARD	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0130 New Off-Road Compression-Ignition Engines
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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 engines and emission control systems 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	3SZXL01.1WNA	1.1	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Loader, Pump, Compressor, Generator Set, Excavator, Lift, Roller	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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):

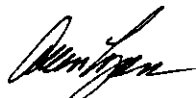
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
8 ≤ KW < 19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
		CERT	--	--	4.9	0.8	0.27	5	5	9

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 20TH day of November 2002.



Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **Isuzu Motors Limited**
 Engine category: **Nonroad CI**
 EPA Engine Family: **3SZXL01.1WNA**
 Mr Family Name: **NA**
 Process Code: **New Submission**

ATTACHMENT

E0 U-R-006-0130

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
3LB1NAAWA-01	3LB1 (16.2 kW)	24.4 @ 3000	21.5 @ 3000	10.8 @ 3000	49.5 @ 1800	24.4 @ 1800	7.3 @ 1800	EM, IDI
3LB1NAAWB-01	3LB1	15.7 @ 1750	23.6 @ 1750	6.9 @ 1750	47.2 @ 1750	23.6 @ 1750	6.9 @ 1750	EM, IDI
3LB1NAAWB-02	3LB1	17.0 @ 1800	24.6 @ 1800	7.4 @ 1800	49.8 @ 1800	24.6 @ 1800	7.4 @ 1800	EM, IDI
3LB1NAAWB-03	3LB1	19.3 @ 2000	23.8 @ 2000	7.9 @ 2000	49.5 @ 1800	24.4 @ 1800	7.3 @ 1800	EM, IDI
3LB1NAAWB-04	3LB1	20.1 @ 2220	23.1 @ 2220	8.5 @ 2220	48.7 @ 1800	24.1 @ 1800	7.2 @ 1800	EM, IDI
3LB1NAAWB-05	3LB1	19.6 @ 2300	22.3 @ 2300	8.6 @ 2300	48.0 @ 1800	24.0 @ 1800	7.2 @ 1800	EM, IDI
3LB1NAAWB-06	3LB1	21.1 @ 2400	22.3 @ 2400	8.9 @ 2400	49.5 @ 1800	24.4 @ 1800	7.3 @ 1800	EM, IDI
3LB1NAAWB-07	3LB1	16.8 @ 2700	17.9 @ 2700	8.0 @ 2700	39.1 @ 2000	17.9 @ 2000	6.0 @ 2000	EM, IDI
3LB1NAAWB-08	3LB1	23.1 @ 2700	23.1 @ 2700	10.4 @ 2700	48.0 @ 2000	23.8 @ 2000	7.9 @ 2000	EM, IDI
3IRL2NAWB-01	3IRL2N	15.7 @ 1750	23.6 @ 1750	6.9 @ 1750	47.2 @ 1750	23.6 @ 1750	6.9 @ 1750	EM, IDI

11/20/2004