California Environmental Protection Agency AIR RESOURCES BOARD	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0071 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-45-9;

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			FUEL TYPE	USEFUL LIFE (hours)		
2002	2SZXL01.5YNB	1.5	Diesel	5000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection			Loader, Tractor, Pump, Compressor, Excavator, Lift			

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	EXHAUST (g/kw-hr)			OPACITY (%)					
	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
19 ≤ KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		CERT			9.0	4.9	0.46	6	8	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

__ day of November 2001.

R. B. Summerfield, Chief Mobile Source Operations Division

Engine Model Summary Form

ATTACHMEN

FO U-R-006-007

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Manufacturer: Isuzu Motors Limited Engine category: Nonroad CI EPA Engine Famiy. 2SZXL01.5YNB Mfr Family Name: NA

New Submission

Process Code:

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 Ā ß 10.3@2000 9.1@1800 8.7@2000 8.7@2000 mm/stroke@peak torque 26.1@2000 30.4@1800 30.7@2000 26.1@2000 7.Fuel Rate: 6.Torque @ RPM (SEA Gross) 70.8@2000 65.7@2000 65.7@2000 70.1@1800 5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only) 13.1@3000 13.1@3000 11.9@2350 16.2@3250 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 26.0@3000 26.0@3000 30.4@2350 29.8@3250 3.BHP@RPM (SAE Gross) 3LD2 22. \$ 30.6@2350 33.2@3000 33.2@3000 37.2@3250 27.8 2.Engine Model **3IRL4N** 3LD2 3LD2 3LD2NABDA-03 3LD2NABDA-02 3LD2NABDA-01 **3IRL4NBDA-01** 1.Engine Code