



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	3SZXL01.5YNA	1.5	Diesel	5000
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
19 ≤ KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		CERT	--	--	5.1	3.2	0.71	7	9	14

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: **3SZXL01.5YNA**

Mfr Family Name: **NA**

Process Code: **New Submission**

ATTACHMENT

E0 U-R-006-0134

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
3LD1NAAYB-01	3LD1	25.5@2100	31.7@2100	11.1@2100	67.9@1700	33.7@1700	9.5@1700	EM,IDI
3LD1NAAYB-02	3LD1	26.0@2200	30.1@2200	11.0@2200	69.3@1800	34.5@1800	10.3@1800	EM,IDI
3LD1NAAYB-03	3LD1	27.0@2300	30.1@2300	11.5@2300	69.3@1800	34.5@1800	10.3@1800	EM,IDI
3LD1NAAYB-04	3LD1	27.8@2400	30.1@2400	12.0@2400	69.3@1800	34.5@1800	10.3@1800	EM,IDI
3LD1NAAYB-05	3LD1	27.6@2450	29.7@2450	12.1@2450	67.0@1800	34.1@1800	10.2@1800	EM,IDI
3LD1NAAYB-06	3LD1	29.6@2600	28.3@2600	12.3@2600	69.3@1800	34.5@1800	10.3@1800	EM,IDI
3LD1NAAYB-07	3LD1	31.7@2700	31.3@2700	14.1@2700	69.0@2000	33.7@2000	11.2@2000	EM,IDI
3LD1NAAYB-08	3LD1	30.9@2800	31.1@2800	14.5@2800	69.1@2000	33.7@2000	11.2@2000	EM,IDI
3LD1NAAYB-09	3LD1	33.5@3000	34.0@3000	17.0@3000	67.2@1750	33.9@1750	9.9@1750	EM,IDI
3LD1NAAYB-10	3LD1	27.8@3000	27.9@3000	14.0@3000	62.4@1750	32.4@1750	9.5@1750	EM,IDI
3LD1NAAYA-01	3LD1	32.1@3000	30.6@3000	15.3@3000	70.1@2000	34.6@2000	11.5@2000	EM,IDI
3LD1NAAYA-02	3LD1 (27.9@37.4@3400)	37.4@3400	34.5@3400	19.5@3400	72.2@1800	38.9@1800	11.7@1800	EM,IDI

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