	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0109 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	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2002	2SZXL15.7ETA	15.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger			Crane, Loader, Compressor, Generator, 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 STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 ≤ KW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	--	--	6.0	0.8	0.14	12	6	32

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 26th day of December 2001.


 R. B. Summerfield, Chief
 Mobile Source Operations Division

Engine Model Summary Form

EO U-R-066-0109

ATTACHMENT

Manufacturer: **Isuzu Motors Limited**
 Engine category: **Nonroad CI**
 EPA Engine Family: **2SZXL15.7ETA**
 Mfr. Family Name: **NA**
 Process Code: **New Submission**

kw

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
6WG1TABEA-01	AA-6WGT 2391320.5@2000	320.5@1800	199@2000	132.8@2000	1064@1500	224@1500	112.1@1500	EM,TC,DP1
6WG1TABEA-02	AA-6WGT 320.5@1800	320.5@1800	209@1800	125.5@1800	1064@1500	224@1500	112.1@1500	EM,TC,DP1
6WG1TABEA-03 *	AA-6WGT 276.2@2000	276.2@2000	170@2000	113.4@2000	886@1500	187@1500	93.6@1500	EM,TC,DP1
6WG1TABEA-04 *	AA-6WGT 202.1270.9@1800	276.2@2000	176@1800	105.7@1800	886@1500	187@1500	93.6@1500	EM,TC,DP1
6WG1TABEB-01	AA-6WGT 320.5@1800	320.5@1800	209@1800	125.5@1800	1085@1500	228@1500	114.1@1500	EM,TC,DP1
6WG1TABEB-02 *	AA-6WGT 270.9@1800	270.9@1800	176@1800	105.7@1800	906@1500	191@1500	95.6@1500	EM,TC,DP1

* Isuzu chooses to certify models rated < 225 kw to the NET (225-450 kw) standard.

Ret. Isuzu letter DET-01-051.