

 AIR RESOURCES BOARD	ISUZU MOTORS LIMITED	EXECUTIVE ORDER U-R-006-0107 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	2SZXL09.8ATB	9.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger			Crane, Loader, 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
130 ≤ KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.7	9.0	--	1.4	0.32	17	9	29

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 22nd day of October 2001.



R. B. Summerfield, Chief
 Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT

EO U-R-006-0107

Manufacturer: **Isuzu Motors Limited**

Engine category: **Nonroad CI**

EPA Engine Family: **2SZXL09.8ATB**

Mfr Family Name: **NA**

Process Code: **New Submission**

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm ³ /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 ³ /stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
6SD1TAAAB-01	B-6SD1T 196.5	250.8@2200	130.5@2200	95.8@2200	704.4@1600	139.0@1600	74.2@1600	EM.TC,DP1
6SD1TAAAB-02	B-6SD1T	226.6@1750	139.0@1750	81.2@1750	704.4@1600	139.0@1600	74.2@1600	EM.TC,DP1
6SD1TAAAB-03	B-6SD1T	190.4@2200	99.1@2200	72.8@2200	523.7@1600	103.7@1600	55.3@1600	EM.TC,DP1
6SD1TAAAB-04	B-6SD1T 130.0	174.3@1750	103.7@1750	60.6@1750	523.7@1600	103.7@1600	55.3@1600	EM.TC,DP1
6SD1TAAAB-05	B-6SD1T	235.3@2000	126.9@2000	84.7@2000	672.7@1600	134.0@1600	71.5@1600	EM.TC,DP1
6SD1TAAAB-06	B-6SD1T	245.5@2000	137.6@2000	91.8@2000	704.4@1600	139.0@1600	74.2@1600	EM.TC,DP1
6SD1TAAAB-07	B-6SD1T	214.0@2100	113.3@2100	79.4@2100	624.9@1600	122.5@1600	65.4@1600	EM.TC,DP1