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 ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2002	2SZXL15.7EXA	15.7	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler			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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
CLASS			нс	NOx	NMHC+NOx	со	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	0.13	19	5	49

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 ______26TM day of December 2001.

Rephael Susnowit

R. B. Summerfield, Chief Mobile Source Operations Division

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Engine Model Summary Form

ATTACHMENT

Mfr Family Name: NA

Engine category: Nonroad CI EPA Engine Family: 2SZXL15.7EXA Manufacturer:

Isuzu Motors Limited

EO U-R-006-0110

6WG1XABEA-01 E 6WG1XABEA-02 E 6WG1XABEA-03 E 6WG1XABEA-04 E 6WG1XABEA-05 E 6WG1XABEB-01 E 6WG1XABEB-02 E 6WG1XABEB-02 E 6WG1XABEB-03 E 6WG1XABEB-04 E	Process Code: Nev 1.Engine Code 2.E
3B-6WG1X 36 3B-6WG1X 2.57 3B-6WG1X 2.57 3B-6WG1X 3B-6WG1X 3B-6WG1X 3B-6WG1X 3B-6WG1X 3B-6WG1X 3B-6WG1X 3B-6WG1X 3B-6WG1X 3B-6WG1X	w Submission Engine Model
\$7483.3@2000 483.3@1800 345.2@2000 345.2@1800 415.7@1800 483.3@2000 345.2@1800 345.2@1800 345.2@2000 345.2@1800 345.2@1800 345.2@2000 345.2@1800 345.2@1800 345.2@1800 345.2@1800 345.2@1800 345.2@1800	3.BHP@RPM (SAE Gross)
273.6@2000 287.1@1800 191.7@2000 201.1@1800 247.0@1800 287.1@1800 191.7@2000 201.1@1800 273.6@2000	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)
182.5@2000 172.4@1800 127.9@2000 120.7@1800 147.3@1800 147.3@1800 182.5@2000 127.9@2000 127.9@2000 182.5@2000	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)
2107.0@1500 2107.0@1500 1570.0@1500 1570.0@1500 2107.0@1500 2107.0@1500 1570.0@1500 1570.0@1500 1570.0@1500 2089.0@1400	6.Torque @ RPM (SEA Gross)
300.6@1500 300.6@1500 221.8@1500 261.0@1500 300.6@1500 300.6@1500 221.8@1500 221.8@1500 221.8@1500 225.4@1400	7.Fuel Rate: mm/stroke@peak torque
150.4@1500 150.4@1500 111.0@1500 130.6@1500 150.4@1500 150.4@1500 111.1@1500 111.1@1500 138.0@1400	8.Fuel Rate: (lbs/hr)@peak torque
EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI EM,TC,CAC,DDI	9.Emission Control Device Per SAE J1930

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