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State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-6-55  
Relating to Certification of New Off-Road Compression-Ignition Engines

ISUZU MOTORS LIMITED

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:

Model Year: 2001

Typical Equipment Usage: Crane, Loader, Generator and Other Industrial Equipment

Fuel Type: Diesel

	Engine		
	Displacement	Useful Life	Emission Control Systems
<u>Engine Family</u>	<u>(liters)</u>	<u>(hours)</u>	<u>and Special Features</u>
1SZXL15.7ETA	15.7	8000	Direct Diesel Injection Turbocharger

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Engine Power <u>Rating (kw)</u>	Emission Standard <u>Category</u>	Standard	<u>Exhaust Emissions (g/kw-hr)</u>					<u>Smoke Opacity (%)</u>		
			<u>HC</u>	<u>NOx</u>	<u>NMHC+NOx</u>	<u>CO</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
225<KW<450	Tier 2	Standard	N/A	N/A	6.4	3.5	0.20	20	15	50
		Certification	--	--	6.2	1.2	0.16	12	6	32

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 and 2426).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 7<sup>th</sup> day of March 2001.



R. B. Summerfield, Chief  
Mobile Source Operations Division

# ATTACHMENT

## Engine Model Summary Form

Manufacturer: **Isuzu Motors Limited**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **1SZXL15.7ETA .**  
 Mfr Family Name: **NA**  
 Process Code: **New Submission**

U-R-6-55

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-6WG1T	320.5@2000	199@2000	132.8@2000	1064@1500	224@1500	112.1@1500	EM,TC,DFI
6WG1TABEA-02	AA-6WG1T	320.5@1800	209@1800	125.5@1800	1064@1500	224@1500	112.1@1500	EM,TC,DFI
*6WG1TABEA-03	AA-6WG1T	276.2@2000	170@2000	113.4@2000	886@1500	187@1500	93.6@1500	EM,TC,DFI
*6WG1TABEA-04	AA-6WG1T	270.9@1800	176@1800	105.7@1800	886@1500	187@1500	93.6@1500	EM,TC,DFI
6WG1TABEB-01	AA-6WG1T	320.5@1800	209@1800	125.5@1800	1085@1500	228@1500	114.1@1500	EM,TC,DFI
*6WG1TABEB-02	AA-6WG1T	270.9@1800	176@1800	105.7@1800	906@1500	191@1500	95.6@1500	EM,TC,DFI

← **ISUZU** requested all of models are certified to Tier 2 Ref. letter: DET-01-051