State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-100 Relating to Certification of New Heavy-Duty Motor Vehicle Engines

ISUZU MOTORS LIMITED

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 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-45-3;

IT IS ORDERED AND RESOLVED: That the following Isuzu Motors Limited 1992 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Engine Family	Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems		
NSZ0235FAAX	3.8	(235)	Indirect Diesel Injection Charge Air Cooler Turbocharger		
NSZ0396FAB7	6.5	(396)	Powertrain Control Module Charge Air Cooler Turbocharger		

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine families:

Hydrocarbons _gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	5.0	0.25

The following are the certification emission values for these engine families:

Engine Family	Hydrocarbons _gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
NSZ0235FAAX	0.3	0.8	4.0	0.19
NSZ0396FAB7	0.7	2.2	4.5	0.22

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the provisions of the Board's emission control system warranty regulations (California Health and Safety Code, Section 43205.5).

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

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 6th day of February, 1991

R.B.⊊Summerfiel¢

Assistant Division Chief Mobile Source Division

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$199\underline{2}$ AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	ISUZU MOT	ORS LIMITED	Eng	ine Family	NSZ0235FAAX
Liters (CID)	3.856 (235)	Eng.	Type <u>L4</u>		
Emission Contro (Use abbreviati	ol Sys. & Spec lons per SAE J	ial Features 1930 Jun88)	EM, IDI,	TC, CAC	
Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP	Part Trap/ Catalyst

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part Trap/ Catalyst Mfr. P/N
4BD2TC (FA-1)	ZEXEL CO. 8970461600 8970461610 8970106472 8970106482	ZEXEL CO. 8970254660	129 HP 3000 RPM	0.0760 cc/stroke	Not applicabl

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1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

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Manufacturer ISUZU MOTORS LIMITED		Engi	NSZ0396FAB7		
Liters (CID)	6.494 (396)	Eng.	Туре <u>L6</u>		
Emission Contro	1 Sys. & Speci	al Features	PCME 2	TC, CAC	
(Use abbreviati	ons per SAL JI	1930 Juli88)			<u> </u>
Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part Trap/ Catalyst Mfr. P/N
6BG1X (FB-1)	ZEXEL CO.	ZEXEL CO. 1153002742	197 HP 2800 RPM	0.0870 cc/stroke	Not applicable
6BG1XN (FB-2)	ZEXEL CO. 1156027281	ZEXEL CO. 1153002742	172 HP 2600 RPM	0.0812 cc/stroke	Not applicable
6BG1XNN (FB-3)	ZEXEL CO. 1156027301	ZEXEL CO. 1153002742	163 HP 2600 RPM	0.0784 cc/stroke	Not applicable
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