State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-166

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-45-9;

IT IS ORDERED AND RESOLVED: That the following Isuzu Motors Limited 1998 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

WSZXH07.84RA 7.8 476 Charge Air Cooler	Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
(01111111)	<u> </u>			

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

Total	Carbon	Nitrogen	Particulates	
Hydrocarbons	<u>Monoxide</u>	_Oxides_		
1.3	15.5	4.0	0.10	

The following are the certification exhaust emission values for this engine family in grams per brake-horsepower-hour:

Total	Carbon	Nitrogen	<u>Particulates</u>
Hydrocarbons	Monoxide	Oxides	
0.2	2.0	3.8	0.09

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, Section 2035 et seq.).

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 5

R. B. cummerfield, Chief

Mobile Source Operations Division

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1998 MODEL - YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY - DUTY DIESEL - STANDARD ENGINES

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Manufacturer ISUZU MO Displacement:	CA 49S Cor Flex- Fuel G M85 2282 4	iters	Glow Plug _ Bi- Fuel her (specify) 90 4	Valve /0 X Sp Diesel 10 CFR 86.1: ne configura CAC. TC per SAE J	Cubic Inches Cylinder: _4 park X
		Fuel Pump	1 .	EGR	PTOX /

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm³ / stroke (lbs / hr)	Fuel Pump & Injector Part No.	ECM / PCM Part No.	EGR Valve Part No.	PTOX / Catalyst Converter Part No.
6HK1XN (784RA-1)	197 HP 2400 RPM	100.2 mm² / stroke (80.3 lb/hr)	Fuel Pump 8943905730 Injector 8943908131	8943917090	N/A	N/A
6HK1XS (784RA-2)	227 HP 2400 RPM	117.2 mm³ / stroke (93.9 lb/hr)	Fuel Pump 8943905730 injector 8943908131	8943917080	N/A	N/A

Date Issued: September 1, 1997

Revisions :