State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-151

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 1997 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

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
VSZ7.1D6DAAA	7.1	(435)	Engine Control Module Oxidation Catalytic Converter Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

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

Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
1.3	15.5	5.0	0.10

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

Engine Family	Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
VSZ7.1D6DAAA	0.5	2.8	4.7	0.07

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 18th day of January 1996.

John Kowalski for

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-20-151

1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer ISUZU MOTORS LIMITED Engine Family VSZ7.1D6DAAA

Displacement: 7.1 / Liters 435 / Cubic Inches

All Eng Codes in Eng Family: CA___ 49S___ 50S X Strokes/Cycle: 4 Valves/Cylinder: 2

Ignition: Compression___ Compression with Glow Plug X Spark___

Fuel Type(s): Dedicated X Flex-Fuel___ Dual-Fuel___ Bi-Fuel___ Diesel X CNG___

LNG___ LPG___ M85___ M100___ Other (specify)___

Diesel Cert Fuel: 13 CCR 2282___ 40 CFR 86.1313-90___ 40 CFR 86.1313-94 X

Maximum Rated Power: 197/227 HP @ 2500 / 2500 RPM Engine configuration: I-6

Exhaust ECS (e.g., OC, EGR, PTOX, IFI, TC, CAC): ECM, OC, CAC, TC
(use abbreviations per SAE J1930 SEP91)

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.
6HE1XN (71DAA-3)	197 HP 2500 RPM	94.3 mm³/stroke (78.6 lb/hr)	Fuel Pump 8943954952 8943954962 8943903752 Injector 8943946064	1815106570	N/A	8943943902
6HE1XN (71DAA-5)	197 HP 2500 RPM	94.3 mm³/stroke (78.6 lb/hr)	Fuel Pump 8943957912 8943957922 Injector 8943946064	1815106570	N/A	8943956200
6HE1XS (71DAA-6)	227 HP 2500 RPM	108.9 mm³/stroke (90.7 lb/hr)	Fuel Pump 8943957902 Injector 8943946064	1815106580	N/A	8943956200

Date Issued: Oct. 2, 1995

Revisions: 97H-01