State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-145

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 1996 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
TSZ3.9C6DARW	3.9	235	Charge Air Cooler Turbocharger

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:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
1.3	15.5	5.0	0.10

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

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
TSZ3.9C6DARW	0.5	1.1	4.4	0.08

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 19th day of July 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-20-145

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer ISUZU MOTORS LIMITED Engine Family TSZ3.9C6DARW

Displacement: 3.9 / Liters 235 / Cubic Inches

Maximum Rated Power: 129 HP @ 2800 RPM Engine configuration: I-4

Ignition: Compression ____ Compression with Glow Plug X Spark ____

Fuel Type(s): Dedicated ___ Flex-Fuel ___ Dual-Fuel ___ Diesel X M100 ___ M85 ___

CNG ___ LNG ___ LPG ___ Other (specify) ____

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

Primary Intended Service Class: LHD X MHD ____ HHD ____ Urban Bus ____

Exhaust ECS (incl. MFI; TC, CAC): 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.
4BD2-TC (39CAW-1)	129 HP 2800 RPM	80.1 mm³/stroke (50.4 lbs/hr)	Fuel Pump 8971320500 8971320510 Injector 71-1380 (8970423221)	Not applicable	Not applicable	Not applicable

Date Issued: Feb. 1, 1995

Revisions: .