

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-152

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

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
VSZ3.9C6DARA	3.9	(235)	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:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

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

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VSZ3.9C6DARA	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.).

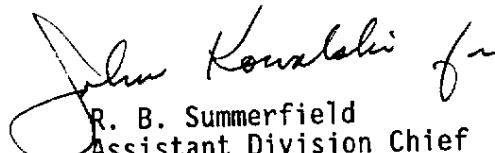
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

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.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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

Manufacturer ISUZU MOTORS LIMITED Engine Family VSZ3.9C6DARA
 Displacement: 3.9 / Liters 235 / 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: 129 HP @ 2800 RPM Engine configuration: I-4
 Exhaust ECS (e.g., OC, EGR, PTOX, IFI, TC, CAC): TC, CAC
 (use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalyst Converter Part No.
4BD2-TC (39CAA-1)	129 HP 2800 RPM	80.1 mm ³ /stroke (50.4 lb/hr)	Fuel Pump 8971320502 8971320512 Injection 71-1380 (8970423221)	Not applicable	Not applicable	Not applicable

Date Issued: Oct. 2, 1995

Revisions: 97H-01