

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-167

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 1999 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>
XSZXH04.83AA	4.8 (294)	Charge Air Cooler Turbocharger Exhaust Gas Recirculation Oxidation Catalytic Converter

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:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
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:

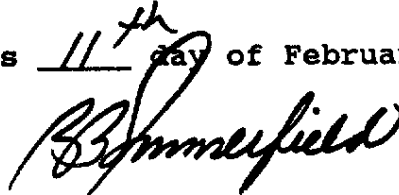
<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
0.4	2.0	3.8	0.08

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 11th day of February 1998.



R. B. Summerfield, Chief
Mobile Source Operations Division

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A15

LARGE ENGINE MODEL SUMMARY

Manufacturer: Isuzu Motors Limited

Process Code: New Submission

EPA Engine Family: XSZXH04.83AA

Manufacturer Family Name: N/A

Engine Code	Engine Model	BHP@RPM (SAE Gross)	Fuel Rate: mm/stroke @ peak HP	Fuel Rate: (lts/hr) @ peak HP	Torque @ RPM (SAE Gross)	Fuel Rate: mm/stroke@peak torque	Fuel Rate: (lts/hr)@peak torque	Emission Control Device Per SAE J1939
483AA-1	4HE1XN	142HP@2800	89.5@2800 <small>(for displacement)</small>	55.7@2800	275@1200	73.5@1200	19.8@1200	DFI,EGR,CAC,TC,OC
483AA-2	4HE1XS	175HP@2700	106.7@2700	64.0@2700	347@2000	97.1@2000	43.2@2000	DFI,EGR,CAC,TC,OC