

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<br>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 18<sup>th</sup> day of January 1996.

  
R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

