

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-203

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

MITSUBISHI MOTORS CORPORATION

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 1997 model-year Mitsubishi Motors Corporation diesel-cycle 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>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VMT238C7DBAA	3.9 (238)	Turbocharger Oxidation Catalytic Converter Charge Air Cooler Engine Control Module

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

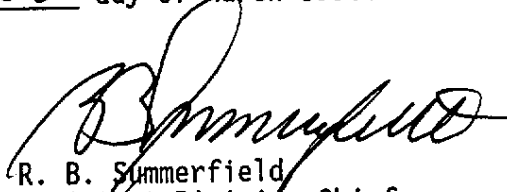
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VMT238C7DBAA	0.2	1.8	4.7	0.08

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 20th day of March 1996.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-86-203

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

Manufacturer: Mitsubishi Motors Corporation Engine Family: VMT238C7DBAA
 Displacement: / 3.9 Liters / 238 Cubic Inches
 All Eng Codes in Eng Family: CA 49 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: 145 HP @ 2,900 RPM Engine Configuration: I4/OHV
 Exhaust ECS (e.g., OC, EGR, PTOX, IFI, TC, CAC): OC, TC, CAC and ECM

(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 / Catalytic Converter Part No.
4D34T3A-US97	135 HP 3,000 rpm	75 mm ³ /st (48.9 lbs/hr)	I/P ME011888 (M/T) ME011889 (A/T) I/N ME015202	MC883161	N/A	ME290188
4D34T3B-US97	145 HP 2,900 rpm	83 mm ³ /st (54.1 lbs/hr)	I/P ME011890 (M/T) ME011891 (A/T)	MC898134	N/A	ME290188

Date Issued:
Revisions: