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

Engine Family	Engine Displacement Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
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:

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
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 30th 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 mm³ / 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 mm³/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 mm³/st (54.1 lbs/hr)	I/P ME011890 (M/T) ME011891 (A/T)	MC898134	N/A	ME290188

Date Issued:

Revisions: