

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-149
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-45-3;

IT IS ORDERED AND RESOLVED: That the following Mitsubishi Motors Corporation 1993 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
PMM0238FAA9	3.9	(238)	Turbocharger Charge Air Cooler
PMM0302FAA9	5.0	(302)	Turbocharger Charge Air Cooler
PMM0460FAA4	7.5	(460)	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine families 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	0.25

The following are the certification emission values for these engine families in grams per brake-horsepower-hour:

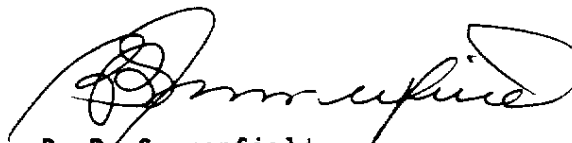
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
PMM0238FAA9	0.4	2.4	4.4	0.23
PMM0302FAA9	0.5	1.9	4.6	0.19
PMM0460FAA4	0.3	1.3	4.5	0.21

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 14th day of May, 1992.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

LHDD

Manufacturer MITSUBISHI MOTORS CORPORATION Engine Family PMM0238FAA9

Liters (CID) 3.9 (238) Fuel Type Diesel Engine Config. In-line, OHV

Exhaust ECS & Special Features TC & CAC
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N k
4D34T3A-US92	ME015191(M/T)	ME015202	135 hp @3000	0.075	Not Applicable
4D34T3B-US92	ME015192(A/T)	ME015202	135 hp @3000	0.075	Not Applicable

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

LH100

Manufacturer MITSUBISHI MOTORS CORPORATION Engine Family PMM0302FAA9

Liters (CID) 5.0 (302) Fuel Type Diesel Engine Config. In-line, OHV

Exhaust ECS & Special Features _____ TC & CAC _____
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N k
6D31T2-US92	ME086683(M/T) ME086684(A/T)	ME015202	155 ph @3000	0.061	Not Applicable

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

MHDD

Manufacturer MITSUBISHI MOTORS CORPORATION Engine Family PMM0460FAA4

Liters (CID) 7.5 (460) Fuel Type Diesel Engine Config. In-line, OHV

Exhaust ECS & Special Features TC : CAC
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N k
6D16T2-US92	ME076768(M/T)	ME076809	220 hp @2600	0.098	Not Applicable
6D16T4-US92	ME076767(M/T) ME076766(A/T)	ME076809	190 hp @2600	0.087	Not Applicable

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