State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-9-15

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

MITSUBISHI MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 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 Mitsubishi Motors Corporation 2000 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Loader, Generator, Crane, Pump and Excavator

Fuel Type: Diesel

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
YMTXL11.9D6B	11.9	(729)	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)		
THC	CO	NOx	PM	Accel	Lug	Peak
1.0	8.5	6.9	0.4	20	15	50

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)		
THC	CO	NOx	PM	Accel	Lug	Peak
0.4	1.2	6.3	0.3	13	10	38

BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures--Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year.

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 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 23rd day of February 1999.

R. B. Summerfield, Chief
Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

1/12/99

EO: U-R-9-15

Manufacturer: Mitsubishi Motors Corporation Process Code: New Submission

EPA Engine Family: YMTXL11.9D6B Manufacturer Family Name: N/A

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SAE Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6D24TCEB-US0	6D24-TCEB	298 @ 1800	174	104.4	922 @ 1200	189	75.6	EM,TC,CAC
6D24TCEA-US0	6D24-TCEA	308 @ 2000	172	114.7	901 @ 1400	181	84.5	EM,TC,CAC
6D24TCEE-US0	6D24-TCEE	308 @ 2000	172	114.7	901 @ 1400	181	84.5	EM,TC,CAC
6D24TCEC-US0	6D24-TCEC	315 @ 2000	175	116.7	908 @ 1400	185	86.3	EM,TC,CAC
6D24TCEF-US0	6D24-TCEF	315 @ 2000	175	116.7	908 @ 1400	185	86.3	EM,TC,CAC
6D24TCED-US0	6D24-TCED	329 @ 2200	164	120.3	904 @ 1500	182	91.0	EM,TC,CAC
6D24TCEG-US0	6D24-TCEG	270 @ 1800	159	95.4	810 @ 1400	167	77.9	EM,TC,CAC
6D24TCEH-US0	6D24-TCEH	295 @ 2100	164	114.8	880 @ 1200	180	72.0	EM,TC,CAC