

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-9-34
Relating to Certification of New Off-Road Compression-Ignition Engines

MITSUBISHI MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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 compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment:

Model Year: 2002

Typical Equipment Usage: Pump, Compressor and Other Industrial Equipment

Fuel Type: Diesel

<u>Engine Family</u>	Engine Displacement (liters)	Useful Life (hours)	Emission Control Systems and Special Features
2MTXL05.8D6A	3.9 and 5.9	8000	Direct Diesel Injection Turbocharger

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 exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Engine Power Rating (kw)	Emission Standard Category		Exhaust Emissions (g/kw-hr)					Smoke Opacity (%)		
			HC	NOx	NMHC+NOx	CO	PM	Accel	Lug	Peak
37≤KW<130	Tier 1	Standard	N/A	9.2	N/A	N/A	N/A	20	15	50
		Certification	--	8.5	--	--	--	12	8	24

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition 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, Sections 2425 and 2426).

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

Executed at El Monte, California this 5th day of April 2001.



R. B. Summerfield, Chief
Mobile Source Operations Division

Manufacturer: Mitsubishi Motors Corporation

Process Code: New Submission

U-R-9-34

EPA Engine Family: 2MTXL05.8D6A

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
4D34TED-US02	4D34-TED	119 @ 2800	76	47.3	264 @ 1800	78	30.8	DDI,EM,TC
4D34TEE-US02	4D34-TEE	92 @ 1900	79	32.2	265 @ 1400	82	25.4	DDI,EM,TC
4D34TEF-US02	4D34-TEF	119 @ 2800	76	47.3	264 @ 1800	78	30.8	DDI,EM,TC
4D34TEG-US02	4D34-TEG	114 @ 2200	85	41.4	288 @ 1800	91	36.3	DDI,EM,TC
4D34TEH-US02	4D34-TEH	86 @ 1800	76	30.2	265 @ 1400	82	24.8	DDI,EM,TC
4D34TEJ-US02	4D34-TEJ	119 @ 2800	76	47.3	264 @ 1800	78	30.8	DDI,EM,TC
4D34TEK-US02	4D34-TEK	90 @ 1800	78	31.0	270 @ 1600	80	28.2	DDI,EM,TC
6D34TEA-US02	6D34-TEA	143 @ 2200	70	51.5	360 @ 1600	70	37.7	DDI,EM,TC
6D34TEB-US02	6D34-TEB	148 @ 2000	76	50.7	390 @ 1600	77	41.0	DDI,EM,TC
6D34TEC-US02	6D34-TEC	148 @ 2000	76	50.7	390 @ 1600	77	41.0	DDI,EM,TC