



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-02-003;

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. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2004	4MFTL11.9D2A	11.945	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module			Crane, Loader and Excavator	

The engine models and codes are attached.

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

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130≤KW<225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
225≤KW<450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	--	--	5.9	0.8	0.16	9	1	33

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 8TH day of January 2004.

Allen Lyons, Chief
Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

Manufacturer: **Mitsubishi Fuso Truck and Bus**

Process Code: **New Submission**

U-R-042-0015

EPA Engine Family: **4MFTL11.9D2A**

Manufacturer Family Name: **6D24-TLA2A**

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
6D24TLA2A-US	6D24-TLA2A	335 @ 2000	183	122.0	940 @ 1200	191	76.4	DDI,EM,ECM,TC,CAC
6D24TLA2B-US	6D24-TLA2B	335 @ 2130	177	125.7	940 @ 1200	191	76.4	DDI,EM,ECM,TC,CAC
6D24TLA2C-US	6D24-TLA2C	286 @ 2100	150	105.0	890 @ 1400	173	80.7	DDI,EM,ECM,TC,CAC
6D24TLA2D-US	6D24-TLA2D	242 @ 2100	128	89.6	745 @ 1400	147	68.6	DDI,EM,ECM,TC,CAC
6D24TLA2E-US	6D24-TLA2E	332 @ 2000	181	120.7	940 @ 1400	190	88.7	DDI,EM,ECM,TC,CAC
6D24TLA2J-US	6D24-TLA2J	335 @ 2000	183	122.0	940 @ 1200	191	76.4	DDI,EM,ECM,TC,CAC
6D24TLA2K-US	6D24-TLA2K	332 @ 2000	181	120.7	940 @ 1400	190	88.7	DDI,EM,ECM,TC,CAC
6D24TLA2Q-US	6D24-TLA2Q	335 @ 2000	183	122.0	940 @ 1500	196	98.0	DDI,EM,ECM,TC,CAC

LARGE ENGINE MODEL SUMMARY

Manufacturer: **Mitsubishi Fuso Truck and Bus**

Process Code: **New Submission**

U-R-042-0015

EPA Engine Family: **4MFTL11.9D2A**

6D24-TLA2F

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
6D24TLA2F-US	6D24-TLA2F	316 @ 2000	170	113.3	933 @ 1400	189	88.2	DDI,EM,ECM,TC,CAC
6D24TLA2L-US	6D24-TLA2L	266 @ 2000	150	100.0	870 @ 1400	169	78.9	DDI,EM,ECM,TC,CAC
6D24TLA2M-US	6D24-TLA2M	316 @ 2000	170	113.3	907 @ 1500	186	93.0	DDI,EM,ECM,TC,CAC
6D24TLA2N-US	6D24-TLA2N	266 @ 2000	150	100.0	870 @ 1400	169	78.9	DDI,EM,ECM,TC,CAC
6D24TLA2P-US	6D24-TLA2P	266 @ 2000	150	100.0	870 @ 1400	169	78.9	DDI,EM,ECM,TC,CAC