California Environmental Protection Agency AIR RESOURCES BOARD	MITSUBISHI FUSO TRUCK AND BUS CORPORATION	EXECUTIVE ORDER U-R-042-0041 New Off-Road Compression-Ignition Engines

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)
2009	9MFTL07.5M6A	7.545	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Exhaust Gas Recirculation	Crane, Forklift, Excavator, Off-Road Vehicle

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
75≤KW<130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130≤KW<225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.4	0.8	0.11	10	0	21

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 27th day of November 2008.

J. Lourenco

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Template

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Engine Family	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 (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
9MFTL07.5M6A	6M60TLA3A-US09	6M60-TLA3A	252 @ 2150	124	88.9	629 @ 1800	128	76.8	DDI,EM,ECM,EGR,PCV, TC,CAC
9MFTL07.5M6A	6M60TLA3B-US09	6M60-TLA3B	267 @ 2600	116	100.5	579 @ 1400	115	53.7	DDI,EM,ECM,EGR,PCV, TC,CAC
9MFTL07.5M6A	6M60TLA3C-US09	6M60-TLA3C	215 @ 2100	106	74.2	572 @ 1600	115	61.3	DDI,EM,ECM,EGR,PCV, TC,CAC
9MFTL07.5M6A	6M60TLA3D-US09	6M60-TLA3D	195 @ 2100	96	67.2	546 @ 1600	110	58.7	DDI,EM,ECM,EGR,PCV TC,CAC
9MFTL07.5M6A	6M60TLA3E-US09	6M60-TLA3E	173 @ 2100	86	60.2	516 @ 1600	104	55.5	DDI,EM,ECM,EGR,PCV TC,CAC
9MFTL07.5M6A	6M60TLA3T-US09	6M60-TLA3T	148 @ 2100	75	52.5	450 @ 1600	90	48.0	DDI,EM,ECM,EGR,PCV, TC,CAC