California Environmental Protection Agency AIR RESOURCES BOARD	MITSUBISHI FUSO TRUCK AND BUS CORPORATION	EXECUTIVE ORDER U-R-042-0035 New Off-Road Compression-Ignition Engines
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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)	
2008	8MFTL04.9M5A	4.899	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS					
Direct Dies Engine	el Injection, Turbocharge Control module, Exhaust	er, Charge Air Cooler, t Gas Recirculation	Excavator, Dump Truck, Rough Te	rrain Crane	

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	EMISSION		EXHAUST (g/kw-hr) OPACITY (%)				•)			
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
75 <u><</u> KW<130	Tier 3	STD	N/A	N/A	4.0	5.0	030	20	15	50
		CERT			3.1	1.0	0.16	3	1	13

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 ______ day of September 2007.

mmtt Akhert

Annette Hebert, Chief Mobile Source Operations Division

ATTACHMENT 10F1

Engine Model Summary Template

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930	46.4 DOLEM.EGR.	42.7 DDI.EM.ECM.ECR.	46.2 DDI.EM.ECM.EGR. BUN.	43.1 DDI.EM.EGR. DOV.	39.8 DDI.EM.EGM.EGR.	33.4 DDI, EM, ECK, ECK, MK
7.Fuel Rate: mm/stroke@peak torque (lbs/	131	120	130	121	112	94
6. Torque @ RPM (SEA Gross)	428@1600	391@1600	428@1600	406@1600	369@1600	310@1600
Il Rate: 5. Fuel Rate: @ peak HP (bs/hr) @ peak HP 6. Torque @ RPM sel only) (for diesels only) (SEA Gross)	62.1	64.8	55.6	51.6	47.6	39.6
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	127	108	125	116	107	89
3.BHP@RPM (SAE Gross)	173 @ 2200	173 @ 2700	158 @ 2000	145 @ 2000	131 @ 2000	110 @ 2000
2.Engine Model	4M50-TLA3A	4M50-TLA3B	4M50-TLA3C	4M50-TLA3D	4M50-TLA3E	4M50-TLA3F
Engine Family 1.Engine Code 2.Engine Model	4M50TLA3A-US08 4M50-TLA3A	4M50TLA3B-US08 4M50-TLA3B	4M50TLA3C-US08 4M50-TLA3C	4M50TLA3D-US08 4M50-TLA3D	4M50TLA3E-US08 4M50-TLA3E	4M50TLA3F-US08 4M50-TLA3F
Engine Family	CMFTL04,9M5A	SMFTL04.9M5A	GMFTL04.9M5A	SMFTL04,9M5A 4M50TLA3	BMFTL04.9M5A	BMFTL04.9M5A