California Environmental Protection Agency AIR RESOURCES BOARD	MITSUBISHI HEAVY INDUSTRIES, LTD.	EXECUTIVE ORDER U-R-035-0172 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)				
2006	6MVXL01.0BBB	0.6, 0.8, 1.0	Dieseł	3000				
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION					
	Indirect Diesel Inje	ection	Tractor, Generator and Ind	ustrial Equipment				

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			Ē	EXHAUST (g/kw-h	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 <u><</u> KW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	20	15	50
		CERT			4.9	2.1	0.41	4	3	6

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 December 2005.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT 1 OF 1

Manufacturer: Mitsubishi Heavy Industries, Ltd

Engine category: Nonroad Cl

EPA Engine Family. 6MVXL01.0BBB Mfr Family Name: L Process Code: New Submission

9.Emission Control Device Per SAE J1930	D	<u>0</u>	Ū	D	Ō	Ō	Ō	ē	ē	Q	Ō	Q	ē			D	Q	ē		Ĩ	Ō	Ĩ	<u>o</u> .	Ō		ID
8.Fuel Rate: (lbs/hr)@peak torque_C	7.5	4.0	4.0	4.0	4.5	5.2	6.9	6.9	4.2	5.5	5.1	3.7	5.1	5.1	5.1	6.7	6.7	5.1	6.9	4.5	4.0	6.4	5.1	5.1	5.1	6.9
7.Fuel Rate: mm/stroke@peak torque	20.1	17.8	17.8	17.8	16.6	17.6	19.0	19.0	18.9	20.7	19.2	16.6	19.2	19.2	19.2	20.1	20.1	19.2	19.0	16.6	17.8	19.4	19.2	19.2	17.2	19.0
6.Torque @ RPM (SEA Gross)	41.2@2200	36.2@1350	36.2@1350	36.2@1350	34.4@1650	36.2@1800	39.1@2200	39.1@2200	38.3@1350	27.5@2400	25.0@2400	31.8@1350	25.0@2400	25.0@2400	25.0@2400	41.2@2000	41.2@2000	25.0@2400	39.1@2200	34.4@1650	36.2@1350	39.8@2000	25.0@2400	25.0@2400	36.2@1800	39.1@2200
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	12.4	5.2	5.2	5.2	6.4	7.2	11.9	11.9	5.5	8.5	7.7	4.7	7.7	7.7	7.7	7.2	7.2	7.7	11.9	6.4	5.2	6.7	7.7	7.7	6.1	11.9
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	20.9	17.6	17.6	17.6	17.6	18.2	20.0	20.0	18.7	21.4	19.4	15.9	19.4	19.4	19.4	19.0	18.2	19.4	20.0	17.6	17.6	19.4	19.4	19.4	18.3	20.0
3.BHP@RPM (SAE Gross)	25.1@3600	12.5@1800	12.5@1800	12.5@1800	15.4@2200	17.4@2400	23.8@3600	23.8@3600	13.0@1800	16.7@3600	15.2@3600	11.0@1800	15.2@3600	15.2@3600	15.2@3600	17.3@2300	17.4@2400	15.2@3600	23.8@3600	15.1@2150	12.5@1800	15.7@2100	15.2@3600	15.2@3600	14.3@2000	23.8@3600
2.Engine Model	L3E	L3E	L3E	L3E	L3E	L3E	L3E	L3E	L3E	L2E	L2E	L3C	L2E	L2E	L2E	L3E	L3E	L2E	L3E	L3E	L3E	L3E	L2E	L2E	L3E	L3E
1.Engine Code	1.3E-Y162WM	L3E-W261DG	L3E-W262SD	L3E-W261CG	L3E-W263ESA	L3E-W262KL	L3E-W261DPH	L3E-W261DPH	L3E-W261WM	L2E-W262WM	L2E-W262WMG	L3C-W263WMA	L2E-W261DPH	L2E-W261DPH	L2E-W262SDH	L3E-W261DW	L3E-W231NSA	L2E-W264SGH	L3E-W264SGH	L3E-W264ESA	L3E-W261ML	L3E-W2SCMC	L2E-W261TRG	L2E-W261DPA	L3E-W265ESB	L3E-W261DPA

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Engine Model Summary Form

					4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (fbs/hr) @ peak HP (for diesel only) (for diesels only)
ndustries,Ltd					3.BHP@RPM (SAE Gross)
Mitsubishi Heavy Industries,Ltd	Nonroad Cl	EPA Engine Famly: 6MVXL01.0BBB		Running Change	2.Engine Model
Manufacturer:	Engine category:	EPA Engine Fam i y.	Mfr Family Name:	Process Code:	1.Engine Code

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5.9

19.8

39.8@1800

8.0 0

18.7

17.3@2600

L3E

L3E-W211RH

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

7.Fuel Rate: mm/stroke@peak torque

> 6.Torque @ RPM (SEA Gross)

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