

MITSUBISHI HEAVY INDUSTRIES, LTD.

EXECUTIVE ORDER U-R-035-0193 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)		
2006	6MVXL06.4AAB	6.4	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger			Excavator			
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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 STANDARD CATEGORY		EXHAUST (g/kw-hr)			OPACITY (%)				
POWER CLASS			HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 <u><</u> KW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT		_	6.0	1.1	0.29	8	4	16

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 I OF 1

Manufacturer: Mitsubishi Heavy Industries,Ltd
Engine category: Nonroad Cl
EPA Engine Family: 6MVXL06.4AAB

Mfr Family Name: S6K-T

New Submission Process Code:

W-B-035-0193

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8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	2	DITC	DI I C
8.Fuel Rate: (lbs/hr)@peak torque	58.2	31.1	31.1
7.Fuel Rate: mm/stroke@peak torque	91.7	79.3	79.3
6.Torque @ RPM (SEA Gross)	409ftlb@1400	362ftlb@1200	362ftlb@1200
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	63.8	44.5	44,5
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	89.3	68.2	68.2
3.BHP@RPM (SAE Gross)	130.2hp@1800	110.5hp@1800	110.5hp@1800
1.Engine Code 2.Engine Model	S6K-Y2DT74SCK S6K-T 130.2hp@1800	S6K-T	
1.Engine Code	S6K-Y2DT74SCK	S6K-Y2DT31TFD	S6K-Y2DT31TFD2 S6K-T