

ISHIKAWAJIMA-SHIBAURA MACHINERY CO., LTD.

EXECUTIVE ORDER U-R-026-0071 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.

ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE USEFUL LIF (hours)				
3H3XL.676M20	0.676	Diesel 3000				
	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Indirect Diesel Inje	ection	Marine Engine				
	3H3XL.676M20	3H3XL.676M20 0.676	3H3XL.676M20 0.676 Diesel EATURES & EMISSION CONTROL SYSTEMS TYPICAL EQUIPMENT A			

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	EMISSION STANDARD	_			EXHAUST (g/kw-l	ır)		OF	PACITY (%	b)
CLASS	CATEGORY		HC	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
8 <u><</u> KW<19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	N/A	N/A	N/A
		CERT			4.6	1.3	0.41			

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 _____674 ___ day of January 2003.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT 10F1

Manufacturer: Ishikawajima-Shibaura Machinery Co., Ltd.

Engine category: Nonroad CI

EPA Engine Family: "3H3XM.676M20

Mfr Family Name: N/A

Process Code: New Submission

W-R-026-0071

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