TOHATSU CORPORATION

EXECUTIVE ORDER U-W-004-0028

New Spark-Ignition Marine Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43013, 43018, 43101, 43102 and 43104; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following new spark-ignition marine engine and emission control systems (ECS) produced by the manufacturer are certified as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	FUEL TYPE	DISPLACEMENT (cc)	LEVEL OF CLEANLINESS				
2005	51TXM.12322B	Gasoline	123	Very Low Emission ("Two Stars")				
EQUIPME	NT APPLICATION	ECS & SPEC	CIAL FEATURES	ENGINE TYPE				
Outboard		Engine	Modification	4-Stroke				
ENGINE MODELS (rated power in kilowatts, kW)		See Attachment						

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) exhaust emission standard (Title 13, California Code of Regulations, (13 CCR) Section 2442(a)(1)) and certification emission level in grams per kilowatt-hour (g/kW-hr) for this engine family. Engines in this engine family shall have closed crankcases in conformance with Part I, Section 18(h) of the "California Exhaust Emission Standards and Test Procedures for 2001 Model-Year and Later Spark-Ignition Marine Engines."

	STANDARD (g/kW-hr) (estimated)	CERTIFICATION LEVEL (g/kW-hr)			
HC+NOx	64.80	34.43			

Compliance with the standard under 13 CCR Section 2442(a)(2) shall be determined based on the sales-weighted average power of the engine family based on engines produced in this family for sale in California. This engine family shall not be used to determine compliance through corporate averaging.

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Sections 2443.1, 2443.2 and 2443.3 (emission control, consumer, and environmental labels), and Sections 2445.1 and 2445.2 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter pursuant to 13 CCR Section 2442(a)(2)(B).

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 25th day of March 2004.

Allen Lyons, Chief

Mobile Source Operations Division

TTACHMENT

Model Year: 2005

Manufacturer Name: TOHATSU CORPORATION
Engine Family: 51TXM.12322B

SI MARINE ENGINE SUPPLEMENTAL INFORMATION

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S10. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

S12. Engine Model	S13. Engine Code	S14. Sales Codes (Check ALL appropriate)		S15. Eng. Displ.	S16. Rated Power	S17. Rated Speed	S18. Peak Torque	S19. Peak Torque	
		Calif. Only	49- State	50- State	(cc)	(kW)	(RPM)	(N-m)	Speed (RPM)
1F04201DK 1F04211DK 7F04201TK 7F04211TK				X	123	2.94	5000	7.35	3500
1F05201DK 1F05211DK 7F05201TK 7F05211TK	, , , , , , , , , , , , , , , , , , ,			Х	123	3.68	5000	7.45	3500
1F06201DK 1F06211DK 7F06201TK 7F06211TK				Х	123	4.41	5500	8.43	4250
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