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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-W-4-1 Relating to Certification of New Spark-Ignition Marine Engines

TOHATSU CORPORATION

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

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following new spark-ignition marine engine and exhaust emission control system produced by the manufacturer are certified as described below.

Model Year: 2001

Fuel Type: Gasoline

Engine Type: 4-Stroke

Level of Cleanliness: Very Low Emission ("Two Stars")

Equipment Application: Outboard

Engine Family: 11TXM.12322B

Displacement: 123 cc

Exhaust Emission Control Systems and Special Features:

Engine Modification

Engine models are listed on the attachment. Production engines shall be in all material respects the same as those for which certification is granted.

BE IT FURTHER RESOLVED: That the manufacturer has opted to certify, and has certified the listed engines to the hydrocarbon plus oxides of nitrogen (HC+NOx) exhaust emission standard described below, expressed in grams per kilowatt-hr (g/kW-hr) under Section 2442(b) of Title 13, California Code of Regulations (13 CCR).

HC + NOx (estimated) Standard	Certification <u>Level</u>
64.80	34.43

Compliance with the standard under 13 CCR Section 2442(b) 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 the following California emission regulations and requirements. Engines certified under this Executive Order shall conform to all applicable California emission regulations and requirements:

- All applicable requirements in the "California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines";
- Emission Control Labeling and Consumer/Environmental Labeling (Title 13, California Code of Regulations, Sections 2443.1, 2443.2 and 2443.3);
- Emission Control System Warranty (Title 13, California Code of Regulations, Sections 2445.1 and 2445.2);
- Closed Crankcases (Part 1, Section 18.(h) of the "California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines"); and
- Quarterly reports of engines produced in this family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

BE IT FURTHER RESOLVED: That the certification to Section 2443.3, Title 13, California Code of Regulations described herein is conditioned on approval of that section by California's Office of Administrative Law pursuant to Government Code Section 11349.4.

Executed at El Monte, California this $25^{\frac{74}{12}}$ day of May 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

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ATTAC IMENT

Model Year: 2001 Manufacturer Name: TOHATSU CORPORATION

Engine Family: 11TXM.123228 E.O.#: LL-W-H-/

SI Marine Engine Model Summary Porm

44. Engine Family Sales-Weighted Power: KW

E.S. 7 4250 N/A 4250 N/A 3500 N/A 350MIN/A 3500 N/A 4250 N/A 4250 N/A 4250 N/A 3500 N/A 4250 N/A Torque (RPM) Speed S 7.45 7.45 8,43 24 E E E 8.43 8.43 8.43 Rated Torque (R-in) 25 2000 5000 5000 5000 5000 S000 5000 5000 5000 5000 5000 5000 5000 5000 5500 5500 5500 5500 5000 5000 5000 5000 5500 5000 Speed K. C. 1131:141 2 4.41 444 Power (KW) 50 Havie Ignition . (पुरस्तः *श्चि* idle) HTDC 25° BTDC 25° HTDC 25 BTDC 25 BTDC 25° BTDC 25 B1.15.75 BTDC 25 BUDC 25 BTDC 25 BTDC 25° BT'DC 25 BTDC 25° BTDC 25 BTDC 25° BTDC 25° BYDC 25° BTDC 25° BTDC 25° HTDC 25 BLDC 25 BTDC 25° BYDC 25 9 Bore/Strolle (EEE) 9 123 59 / 45 123 59 / 45 123 **59/45** 123 **59/4**5 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59/45 123 59 / 45 123 59/45 173 59 / 15 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59 / 45 123 59/45 123 59/45 123 59/45 123 59 / 45 123 59 / 45 Disp. (ec) 4 Sh State (Check all appropriate cedes) 4 i Sales Cudes 49 Siele Calif. Only Design<mark>ati</mark>on 7F04261KM F05211YM 1F06201YM 7F04201KB F04211YM 7F64201KK F04211YB F04216KB 7F05201KB 7F06211KK F04201YK 1F04201YB F04211YK **TF0-1211KK** 7F04211KB 1F04216YB F05201YK 1F05201YB IF05201YK 7F05201KK IF05211YB 1F05211YK 7F05211KK 7F05211KB 1F06201YK 1F06201YB 7F06201KK 7F06201KB 1F06211YB 1F06211YK 7F06211KB Model \$