

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-14-012;

**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<br>(LPG=liquefied petroleum gas) | DISPLACEMENT (cc) | LEVEL OF CLEANLINESS               |
|---|----------------|--|-------------------|------------------------------------|
| 2017  | H1TXM.12322E   | Gasoline or LPG                            | 123               | Ultra Low Emission ("Three Stars") |
| EQUIPMENT APPLICATION                           |                | ECS & SPECIAL FEATURES                     |                   | ENGINE TYPE                        |
| Outboard  |                | Engine Modification                        |                   | 4-Stroke                           |
| ENGINE MODELS<br>(rated power in kilowatts, kW) | See Attachment |  |                   |                                    |

**BE IT ORDERED AND RESOLVED:** That the following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2442(a)) and certification emission levels 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."

|                     | HC+NOx (g/kW-hr) | CO (g/kW-hr) |
|---------------------|------------------|--------------|
| STANDARD            | 28.88            | 478.0        |
| CERTIFICATION LEVEL | 24.65            | 354.4        |

Compliance with the standards under 13 CCR Section 2442(a) 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).

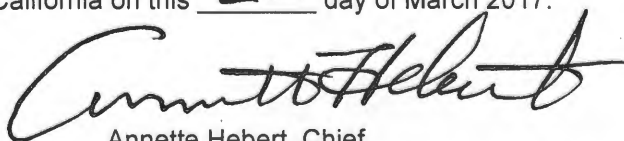
Engines certified under this Executive Order must conform to all applicable California emission regulations.

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.

**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.**

This Executive Order hereby supersedes Executive Order U-W-004-0136 dated December 23, 2016.

Executed at El Monte, California on this 22 day of March 2017.



Annette Hebert, Chief  
 Emissions Compliance, Automotive Regulations and Science Division

Model Year: 2017  
 Manufacturer Name: TOHATSU CORPORATION  
 Engine Family: H1TXM.12322E  
 SI MARINE ENGINE SUPPLEMENTAL INFORMATION

Page: 3  
 Issued: Nov 29, 2016  
 Revised: Jan 31, 2017  
 E.O.#: U-W-004-0136-1

S11. MODEL SUMMARY

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

| S12.<br>Engine Model | S13.<br>Engine Code | S14.<br>Sales Codes<br>(Check ALL appropriate) |          |          | S15.<br>Eng. Displ.<br>(cc) | S16.<br>Rated Power<br>(kW) | S17.<br>Rated Speed<br>(RPM) | S18.<br>Peak Torque<br>(N-m) | S19.<br>Peak Torque Speed<br>(RPM) |
|----------------------|---------------------|--|----------|----------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------------|
|                      |                     | Calif. Only                                    | 49-State | 50-State |                             |                             |                              |                              |                                    |
| MFS4C*               |                     |  |          | X        | 123                         | 2.94                        | 5000                         | 7.2                          | 3500                               |
| MFS5C                |                     |  |          | X        | 123                         | 3.68                        | 5000                         | 7.9                          | 3500                               |
| MFS5C<br>LPG         |                     |  |          | X        | 123                         | 3.70                        | 5500                         | 7.2                          | 4100                               |
| MFS6C/<br>EVF6C2     |                     |  |          | X        | 123                         | 4.41                        | 5500                         | 8.2                          | 4000                               |