## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-W-1-7 Relating to Certification of New Spark-Ignition Marine Engines

## MERCURY MARINE

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 is certified as described below.

Model Year: 2001

Fuel Type: Gasoline

Level of Cleanliness: Ultra Low Emission ("Three Stars")

Equipment Application: Outboard

Engine Family: 1M9XM02.52C3

Displacement: 2507 cc

Exhaust Emission Control Systems and Special Features: DFI

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	Certification
(estimated) Standard	Level
16.48	13.16

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 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 / day of May 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

Attachment

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SI Marine Engine Model Summary Form

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Fage: fssued: Revised:

Model Yest: 2001

Manufacturer Name: Mercury Marine

Engine Family: 1M9XM02.52C3

E.O.#: U-[\lambda]-1-\frac{7}{7}

DE FE ECS PIL 3008-3500 3000-3500 3000-3500 3000-3500 3000-3500 3000-3500 3000-3500 3000-3500 Torque Speed (RPM) Rated Torque (N-m) 370.2 370.2 370.2 370.2 370.2 370.2 370.2 370.2 Rated Speed (RPM) 5250 5250 5250 5250 5250 5250 5250 5256 51. 100.71 106.71 100.71 100.71 100.71 100.71 100.71 Power (kW) 100.71 44. Engine Family Sales-Weighted Power: Basic Ignition Timing (deg. Nixed Timing Fixed Timing (@ idle) <del>6</del> Bore/Strok c (mm) 88.4/67.3 88.4/67.3 88.4/67.3 88.4/67.3 88,4/67.3 88.4/67.3 88,4/67.3 88.4/67.3 30 2507 2507 2507 Disp. (cc) 2507 2507 2507 2507 2507 47. 50-State **>**< ] × × ж × × × × (Chechall appropriate Sales Codes 49. State Calif. Only Model Designation 7135D83KD 1135D84YD 7135D73KD 1135D83YD 1135D83YX 1135D73YD 1135D73YT 1135D73YY <del>\$</del>