## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-W-1-16 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 are certified as described below.

Model Year: 2002

Fuel Type: Gasoline

Engine Type: 2-Stroke

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

**Equipment Application: Outboard** 

Engine Family: 2M9XM03.02C0

Displacement: 3044 cc

Exhaust Emission Control Systems and Special Features:

**Direct Fuel Injection** 

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 hydrocarbons plus oxides of nitrogen (HC+NOx) exhaust emission standard described below, expressed in grams per kilowatt-hour (g/kW-hr) under Section 2442(b) of Title 13, California Code of Regulations (13 CCR).

HC + NOx (estimated) Standard	Certification Level
36.16	26.89

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 (13 CCR Sections 2443.1, 2443.2 and 2443.3)
- Emission Control System Warranty (13 CCR 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")
- 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.

Executed at El Monte, California this 4th day of April 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

Model Year: \_\_\_\_2002\_\_\_ Manufacturer Name: \_\_\_Mercury Marine\_\_\_ Engine Family: \_\_\_2M9XM03.02C0\_ SI MARINE ENGINE SUPPLEMENTAL INFORMATION.

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

S11 S12  Model Engine Code		S13 Sales Codes (Check all appropriate codes)			S14 Eng. Disp. (cc)	S15 Rated Power	S16 Rated Speed	S17 Peak Torque	S18 Peak Torque
		Calif. Only	49 State	50- State	(kW)	(kW)	(RPM)	(N-m)	Speed (RPM)
1200D73ZD				X	3044	149.2	5375	635.9	3000
1200D83ZT				X	3044	149.2	5375	635.9	3000
1200D83ZD				X	3044	149.2	5375	635.9	3000
1200D83ZY				X	3044	149.2	5375	635.9	3000
1200D84ZY				X	3044	149.2	5375	635.9	3000
1200D93ZY				X	3044	149.2	5375	635.9	3000
1200D94ZY				X	3044	149.2	5375	635.9	?000
7200D83LY				X	3044	149.2	5375	635.9	5000
7200D73LD				X	3044	149.2	5375	635.9	5000
1225D73ZT	,			X	3044	167.85	5375	645.9	5000
1225D83ZD				X	3044	167.85	5375	645.9	5000
1225D83ZY				X	3044	167.85	5375	645.9	5000
1225D84ZY				X	3044	167.85	5375	645.9	5000
1225D93ZY				X	3044	167.85	5375	645.9	5000
1225D94ZY				X	3044	167.85	5375	645.9	5000
7225D73LD				X	3044	167.85	5375	645.9	5000
7225D83LY				X	3044	167.85	5375	645.9	5000
1225D73ZD				X	3044	167.85	5375	645.9	5000
1250E73ZD				X	3044	186.5	5375	642	5000
1250E83ZY				X	3044	186.5	5375	642	5000
1250E84ZY				X	3044	186.5	5375	642	4500

Model	Year:	2002

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1 I I	S13 Sales Codes (Check all appropriate codes)			S14 Eng. Disp. (cc)	S15 Rated Power	S16 Rated Speed	S17 Peak Torque	S18 Peak Torque	
	Calif. Only	49 State	50- State		(kW)	(RPM)	(N-m)	Speed (RPM)	
1250E93ZY				X	3044	186.5	5375	642	4500
1250E94ZY				X	3044	186.5	5375	642	4500
7250E83LY				X	3044	186.5	5375	642	4500
7250E84LY				X	3044	186.5	5375	642	4500
1200D83ZC				X	3044	149.2	5375	635.9	3000
1200D84ZC				X	3044	149.2	5375	635.9	3000
1225D83ZC				X	3044	167.85	5375	645.9	5000
1225D84ZC				X	3044	167.85	5375	645.9	5000
1225D93ZC				X	3044	167.85	5375	645.9	5000
1225D94ZC				Х	3044	167.85	5375	645.9	5000
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