

 CALIFORNIA AIR RESOURCES BOARD	MERCURY MARINE	EXECUTIVE ORDER U-W-001-0537 New Spark-Ignition Marine Engines
---------------------------------------------------------------------------------------------------------------------------	-----------------------	--------------------------------------------------------------------------

Pursuant to the authority vested in California 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-19-095;

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
2021	MM9XM.3332GE	Gasoline	333	Ultra Low Emission ("Three Stars")
EQUIPMENT APPLICATION		ECS & SPECIAL FEATURES		ENGINE TYPE
Outboard		Multiport Fuel Injection		4-Stroke
ENGINE MODELS (rated power in kilowatts, kW)	See Attachment			

BE IT ORDERED AND RESOLVED: That the listed engines are certified to a hydrocarbon plus oxides of nitrogen (HC+NOx) family emission limit (FEL) and a carbon monoxide (CO) direct standard in accordance with a plan submitted by the manufacturer to, and approved by, the Executive Officer for compliance with the exhaust emission standards on a corporate average basis pursuant to Title 13, California Code of Regulations, (13 CCR) Section 2442(a). The HC+NOx FEL and the CO standard shall be the applicable emission standards for this engine family for determining compliance of any engine within this engine family pursuant to 13 CCR Sections 2444.1 (in-use compliance) and 2446 (audit testing). The standards and certification emission levels in grams per kilowatt-hour (g/kW-hr) for this engine family are as follows. 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."

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)
STANDARD	*	424.0
FAMILY EMISSION LEVEL	19.50	*
CERTIFICATION LEVEL	19.12	168.9

Compliance with the emission standards on a corporate average basis shall be determined pursuant to 13 CCR Section 2442(a) based on the sales-weighted average power of all engines produced for sale in California that are included in the approved corporate average compliance plan for the model-year.

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 Sections 2442(a)(2)(B) and 2446.

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 on this 4th day of August 2020.



Allen Lyons, Chief
Emissions Certification and Compliance Division

Model Year: 2021
 Manufacturer Name: Mercury Marine
 Engine Family: MM9XM.3332GE
 SI MARINE ENGINE SUPPLEMENT INFORMATION

Page: 3
 Issued: 07/23/2020
 Revised: _____
 E.O.#: _____

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

S11 Model Designation	S12 Engine Code	S13 Sales Codes (Check all appropriate codes)			S14 Eng. Disp. (cc)	S15 Rated Power (kW)	S16 Rated Speed (RPM)	S17 Peak Torque (N-m)	S18 Peak Torque Speed (RPM)
		Calif. Only	49 State	50-State					
1A15201BK				X	333	12.19	6100	23.1	3500
1A15204BK				X	333	12.19	6100	23.1	3500
1A15211BK				X	333	12.19	6100	23.1	3500
1A15301BK				X	333	12.19	6100	23.1	3500
1A15302BK				X	333	12.19	6100	23.1	3500
*1A15311BK				X	333	12.19	6100	23.1	3500
1A15312BK				X	333	12.19	6100	23.1	3500
1A15412BK				X	333	12.19	6100	23.1	3500
1A15451BK				X	333	12.19	6100	23.1	3500
1A15452BK				X	333	12.19	6100	23.1	3500
1A15461BK				X	333	12.19	6100	23.1	3500
1A15462BK				X	333	12.19	6100	23.1	3500
1A20201BK				X	333	15.19	6100	25.3	4500
1A20204BK				X	333	15.19	6100	25.3	4500
1A20211BK				X	333	15.19	6100	25.3	4500
1A20301BK				X	333	15.19	6100	25.3	4500
1A20302BK				X	333	15.19	6100	25.3	4500
1A20311BK				X	333	15.19	6100	25.3	4500
1A20312BK				X	333	15.19	6100	25.3	4500
1A20402BK				X	333	15.19	6100	25.3	4500
1A20411BK				X	333	15.19	6100	25.3	4500
1A20412BK				X	333	15.19	6100	25.3	4500
1A15207BK	Sea Pro			X	333	12.03	5750	23.1	3500
1A15217BK	Sea Pro			X	333	12.03	5750	23.1	3500
1A15201LK				X	333	12.19	6100	23.1	3500
1A15204LK				X	333	12.19	6100	23.1	3500
1A15211LK				X	333	12.19	6100	23.1	3500
1A15301LK				X	333	12.19	6100	23.1	3500
1A15302LK				X	333	12.19	6100	23.1	3500
1A15311LK				X	333	12.19	6100	23.1	3500
1A15312LK				X	333	12.19	6100	23.1	3500
1A15412LK				X	333	12.19	6100	23.1	3500

Model Year: 2021
Manufacturer Name: Mercury Marine
Engine Family: MM9XM.3332GE
SI MARINE ENGINE SUPPLEMENT INFORMATION

Page: 4
Issued: 07/23/2020
Revised: _____
E.O.#: _____

1A20201LK				X	333	15.19	6100	25.3	4500
1A20204LK				X	333	15.19	6100	25.3	4500
1A20211LK				X	333	15.19	6100	25.3	4500
1A20301LK				X	333	15.19	6100	25.3	4500
1A20302LK				X	333	15.19	6100	25.3	4500
1A20311LK				X	333	15.19	6100	25.3	4500
1A20312LK				X	333	15.19	6100	25.3	4500
1A20402LK				X	333	15.19	6100	25.3	4500
1A20411LK				X	333	15.19	6100	25.3	4500
1A20412LK				X	333	15.19	6100	25.3	4500
1A10452BK				X	333	7.83	5700	19.2	2000
1A10451BK				X	333	7.83	5700	19.2	2000
1A10462BK				X	333	7.83	5700	19.2	2000
1A10461BK				X	333	7.83	5700	19.2	2000
1A15302LL				X	333	7.83	5700	19.2	2000

*- certification engine model