

	MERCURY MARINE	EXECUTIVE ORDER U-W-001-0544 New Spark-Ignition Marine Engines
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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	MM9XM02.02GT	Gasoline	2061	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	*	300.0
FAMILY EMISSION LEVEL	13.50	*
CERTIFICATION LEVEL	11.39	144.2

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 23rd day of September 2020.



Allen Lyons, Chief
Emissions Certification and Compliance Division

Model Year: 2021
 Manufacturer Name: Mercury Marine
 Engine Family: MM9XM02.02GT
 SI MARINE ENGINE SUPPLEMENT INFORMATION

Page: _____
 Issued: 07/16/2020
 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					
7F754131F				X	2061	60	5250	141	2500
7F804131F				X	2061	60	5250	141	2500
7F904531F				X	2061	68	5250	150	3000
7100F531F				X	2061	68	5250	150	3000
7115F531F				X	2061	90	6000	162	3500
7115F631F				X	2061	90	6000	162	3500
1F764571D				X	2061	56	5000	139	2500
1F914571D				X	2061	64	5000	140	2500
1F914671D				X	2061	64	5000	140	2500
*1116F571D				X	2061	77	5000	154	3500
1116F671D				X	2061	77	5000	154	3500
1116F681D				X	2061	77	5000	154	3500
1117F131D				X	2061	94	6300	166	3500
1117F231D				X	2061	94	6300	166	3500
1117F531D				X	2061	94	6300	166	3500
1117F631D				X	2061	94	6300	166	3500
1F754132D				X	2061	60	5250	141	2500
1F804132F				X	2061	60	5250	141	2500
1F8047J2D				X	2061	60	5250	141	2500
1F904132D				X	2061	68	5250	150	3000
1F904532D				X	2061	68	5250	150	3000
1F904232D				X	2061	68	5250	150	3000
1F904632D				X	2061	68	5250	150	3000
1F904642D				X	2061	64	5000	140	2500
1100F132F				X	2061	68	5250	150	3000
1100F532F				X	2061	68	5250	150	3000
1100F232F				X	2061	68	5250	150	3000
1100F632F				X	2061	68	5250	150	3000
1115F132D				X	2061	90	6000	162	3500
1115F532D				X	2061	90	6000	162	3500
1115F232D				X	2061	90	6000	162	3500
1115F632D				X	2061	90	6000	162	3500
1115F642D				X	2061	90	6000	162	3500
1F6547J2D				X	2061	68	5250	150	3000
1F7645TED				X	2061	56	5000	139	2500

Model Year: 2021
Manufacturer Name: Mercury Marine
Engine Family: MM9XM02.02GT
SI MARINE ENGINE SUPPLEMENT INFORMATION

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1F7745TED				X	2061	56	5000	139	2500
1F9145TED				X	2061	64	5000	140	2500
1F9146TED				X	2061	64	5000	140	2500
1116F5TED				X	2061	77	5000	154	3500
1116F6TED				X	2061	77	5000	154	3500

*- certification engine model