

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
2020	LM9XM08.7EFI	Gasoline	8700, 8600	Very Low Emission ("Two Stars")
EQUIPMENT APPLICATION		ECS & SPECIAL FEATURES		ENGINE TYPE
High Performance Sterndrive		Sequential Multiport Fuel Injection On-Board Diagnostics-Marine System		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 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(b). 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). This engine family shall comply with the evaporative requirements of 13 CCR Section 2442(b). 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 discharge no crankcase emissions into the ambient atmosphere in conformance with 13 CCR Section 2442(b).

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)
STANDARD	5.0	350.0
FAMILY EMISSION LEVEL	16.0	*
CERTIFICATION LEVEL	13.2	114.7

Compliance with the emission standards on a corporate average basis shall be determined pursuant to 13 CCR Section 2442(b) based on the sales-weighted average 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), Section 2444.2 (on-board engine malfunction detection system), 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.

**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 at El Monte, California on this 24<sup>th</sup> day of December 2019.



Allen Lyons, Chief  
 Emissions Certification and Compliance Division

Model Year: 2020  
 Manufacturer Name: Mercury Marine  
 Engine Family: LM9XM08.7EFI  
 SI MARINE ENGINE SUPPLEMENT INFORMATION

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 Issued: 9/20/2019  
 Revised \_\_\_\_\_  
 E.O. #: V-W-001-0529

S11. MODEL SUMMARY (Use asterisk to identify worst-case engine model used for certification testing)

S12 Engine Model	S13 Engine Code	S14 Sales Codes (Check all appropriate codes)			S15 Eng. Disp. (cc)	S16 Rated Power (kW)	S17 Rated Speed (RPM)	S18 Peak Torque (N-m)	S19 Peak Torque Speed
		Calif. Only	49 State	50 State					
* 520 EFI 4TN9C35WH 4TN2C35WH 4TN9D35WH 4TN2D35WH				X	8600	380	5000	773	3600
520 EFI 4TN9235WH 4TN2235WH 4TN9535WH 4TN2535WH			X		8600	380	5000	773	3600
540 EFI 4SH9295WH 4SH2215WH 4SH9595WH 4SH2515WH			X		8600	400	5200	800	4000
565 EFI 4MH9295XH 4MH2215XH 4MH9595XH 4MH2515XH			X		8700	417	5400	811	4500