

Pursuant to the authority vested in the 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-02-003;

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	ENGINE FAMILY	FUEL TYPE DISPLACEMENT (cc) Gasoline 8200		LEVEL OF CLEANLINESS		
2012	CM9XM08.2AS2			Super Ultra Low Emission ("Four Stars")		
Inboard & Sterndrive		ECS & SPE	CIAL FEATURES	ENGINE TYPE		
		Heated O Three-way C On-Board Di	tiport Fuel Injection, exygen Sensor, atalytic Converter, agnostics (Partial) eation Fuel Hose	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	75.0	
FAMILY EMISSION LEVEL	2.0	¥	
CERTIFICATION LEVEL	1.2	54.1	

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 _____ day of July 2012.

Annette Hebert, Chief

Mobile Source Operations Division

ATTACHMENT

Model Year:2012	Page:3
Manufacturer Name:Mercury Marine_	Issued: 5/11/12
Engine Family:CM9XM08.2AS2	Revised:
SI MARINE ENGINE SUPPLEMENTAL INFORMATION	FO# 11-W-00/-0327

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

S13 Engi ne 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)	Peak Torque Speed (RPM)	
	Calif. Only	49 State	50-State					
			Х	8200	313	5000	669	3500
			Х	8200	316	5000	674	4000
			Х	8200	313	4800	665	4000
			Х	8200	280	4800	627	3250
			X	8200	276	4800	666	3500
			X	8200	276	4800	666	3500
	ne	ne Code	ne codes) Calif. 49	Calif. 49 Only State 50-State X X X X X	Code Codes Disp. (cc) Calif. Only 49 State 50-State X 8200 X 8200 X 8200 X 8200 X 8200 X 8200 X 8200	Code Codes Disp. (cc) Power (kW) Calif. Only 49 State 50-State 313 X 8200 316 X 8200 313 X 8200 313 X 8200 280 X 8200 276	Calif. Only 49 State 50-State X 8200 313 5000 X 8200 316 5000 X 8200 313 4800 X 8200 313 4800 X 8200 280 4800 X 8200 276 4800	Code Code Codes Codes Disp. (cc) Power (kW) Speed (RPM) Torque (N-m) Calif. Only 49 State 50-State X 8200 313 5000 669 X 8200 316 5000 674 X 8200 313 4800 665 X 8200 280 4800 627 X 8200 276 4800 666