

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-14-012;

**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
2018	JM9XM4.62GW	Gasoline	4576	Ultra Low Emission ("Three Stars")
EQUIPMENT APPLICATION		ECS & SPECIAL FEATURES		ENGINE TYPE
Outboard		Sequential Multiport Fuel Injection, Heated Oxygen Sensor		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	16.10	*
CERTIFICATION LEVEL	13.29	66.6

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).

**BE IT FURTHER RESOLVED:** That the listed engine models are conditionally certified pending confirmatory testing to be completed by February 25, 2010. Failure to adequately demonstrate compliance by the specified date shall be cause for the Air Resources Board to revoke this Executive Order. Engines introduced into commerce under the revoked Executive Order shall be deemed uncertified, and the manufacturer may be subject to enforcement action.

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 at El Monte, California on this 20<sup>th</sup> day of April 2018.

  
 Annette Hebert, Chief  
 Emissions Compliance, Automotive Regulations and Science Division

Model Year: 2018  
 Manufacturer Name: Mercury Marine  
 Engine Family: JM9XM04.62GW  
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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
		Calif. Only	49 State	50-State					
12500001A				X	4576	196	4750	413	4000
12500002A				X	4576	196	4750	413	4000
12500003A				X	4576	196	4750	413	4000
12500004A				X	4576	196	4750	413	4000
12500005A				X	4576	196	4750	413	4000
12500006A				X	4576	196	4750	413	4000
12500007A				X	4576	196	4750	413	4000
12500008A				X	4576	196	4750	413	4000
12500009A				X	4576	196	4750	413	4000
12500010A				X	4576	196	4750	413	4000
12500011A				X	4576	196	4750	413	4000
12500012A				X	4576	196	4750	413	4000
12500013A				X	4576	196	4750	413	4000
12500014A				X	4576	196	4750	413	4000
12500015A				X	4576	196	4750	413	4000
12500016A				X	4576	196	4750	413	4000
12500083A				X	4576	196	4750	413	4000
12500084A				X	4576	196	4750	413	4000
12500085A				X	4576	196	4750	413	4000
12500086A				X	4576	196	4750	413	4000
12500017A				X	4576	196	4750	413	4000
12500018A				X	4576	196	4750	413	4000
12500019A				X	4576	196	4750	413	4000
12500020A				X	4576	196	4750	413	4000
12500021A				X	4576	196	4750	413	4000
12500022A				X	4576	196	4750	413	4000
12500023A				X	4576	196	4750	413	4000
12500024A				X	4576	196	4750	413	4000
12500025A				X	4576	196	4750	413	4000
12500026A				X	4576	196	4750	413	4000
12500027A				X	4576	196	4750	413	4000
12500028A				X	4576	196	4750	413	4000
12500087A				X	4576	196	4750	413	4000
12500088A				X	4576	196	4750	413	4000

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 Engine Family: JM9XM04.62GW  
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12500089A				X	4576	196	4750	413	4000
12500090A				X	4576	196	4750	413	4000
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12500030A				X	4576	196	4750	413	4000
12500031A				X	4576	196	4750	413	4000
12500032A				X	4576	196	4750	413	4000
13000002A				X	4576	221	5500	424	4500
13000003A				X	4576	221	5500	424	4500
13000004A				X	4576	221	5500	424	4500
13000005A				X	4576	221	5500	424	4500
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13000012A				X	4576	221	5500	424	4500
13000013A				X	4576	221	5500	424	4500
13000014A				X	4576	221	5500	424	4500
13000015A				X	4576	221	5500	424	4500
13000016A				X	4576	221	5500	424	4500
13000017A				X	4576	221	5500	424	4500
13000111A				X	4576	221	5500	424	4500
13000112A				X	4576	221	5500	424	4500
13000113A				X	4576	221	5500	424	4500
13000114A				X	4576	221	5500	424	4500
13000018A				X	4576	221	5500	424	4500
13000019A				X	4576	221	5500	424	4500
13000020A				X	4576	221	5500	424	4500
13000021A				X	4576	221	5500	424	4500
12000027A				X	4576	168	4500	405	3750
12000035A				X	4576	168	4500	405	3750
12000036A				X	4576	168	4500	405	3750
12000028A				X	4576	168	4500	405	3750
12000037A				X	4576	168	4500	405	3750
12000038A				X	4576	168	4500	405	3750
12250033A				X	4576	183	4500	411	4000
12250053A				X	4576	183	4500	411	4000
12250054A				X	4576	183	4500	411	4000
12250034A				X	4576	183	4500	411	4000
12250055A				X	4576	183	4500	411	4000

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12250056A			X	4576	183	4500	411	4000
12500033A			X	4576	206	5500	423	4500
12500091A			X	4576	206	5500	423	4500
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*12500096A			X	4576	206	5500	423	4500
12500097A			X	4576	206	5500	423	4500
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13000178A			X	4576	221	5500	424	4500
13000023A			X	4576	221	5500	424	4500
13000179A			X	4576	221	5500	424	4500
13000180A			X	4576	221	5500	424	4500
13000181A			X	4576	221	5500	424	4500
13000182A			X	4576	221	5500	424	4500
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12250036A			X	4576	172	4500	389	3750
12250037A			X	4576	172	4500	389	3750
12250038A			X	4576	172	4500	389	3750
12250039A			X	4576	172	4500	389	3750
12250040A			X	4576	172	4500	389	3750
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12250044A			X	4576	172	4500	389	3750
12250045A			X	4576	172	4500	389	3750
12250046A			X	4576	172	4500	389	3750
12500035A			X	4576	187	4750	392	3750
12500036A			X	4576	187	4750	392	3750
12500037A			X	4576	187	4750	392	3750
12500038A			X	4576	187	4750	392	3750
12500039A			X	4576	187	4750	392	3750
12500040A			X	4576	187	4750	392	3750
12500041A			X	4576	187	4750	392	3750
12500042A			X	4576	187	4750	392	3750
12500043A			X	4576	187	4750	392	3750
12500044A			X	4576	187	4750	392	3750
12500045A			X	4576	187	4750	392	3750
12500046A			X	4576	187	4750	392	3750
13000024A			X	4576	206	5500	404	4500

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13000025A				X	4576	206	5500	404	4500
13000026A				X	4576	206	5500	404	4500
13000027A				X	4576	206	5500	404	4500
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13000029A				X	4576	206	5500	404	4500
13000030A				X	4576	206	5500	404	4500
13000031A				X	4576	206	5500	404	4500
13000032A				X	4576	206	5500	404	4500
13000033A				X	4576	206	5500	404	4500
13000034A				X	4576	206	5500	404	4500
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12500065A				X	4576	196	4750	413	4000
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12500068A				X	4576	196	4750	413	4000
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12500077A				X	4576	196	4750	413	4000
12500078A				X	4576	196	4750	413	4000
12500079A				X	4576	196	4750	413	4000
12500080A				X	4576	196	4750	413	4000
12500081A				X	4576	196	4750	413	4000
12500082A				X	4576	196	4750	413	4000
13000036A				X	4576	221	5500	424	4500
13000037A				X	4576	221	5500	424	4500
13000038A				X	4576	221	5500	424	4500
13000039A				X	4576	221	5500	424	4500
13000040A				X	4576	221	5500	424	4500
13000041A				X	4576	221	5500	424	4500
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13000045A				X	4576	221	5500	424	4500
13000046A				X	4576	221	5500	424	4500
13000047A				X	4576	221	5500	424	4500
13000048A				X	4576	221	5500	424	4500
13000049A				X	4576	221	5500	424	4500
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13000051A				X	4576	221	5500	424	4500
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13000118A				X	4576	221	5500	424	4500
13000119A				X	4576	221	5500	424	4500
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13000057A				X	4576	221	5500	424	4500
13000058A				X	4576	221	5500	424	4500
13000059A				X	4576	221	5500	424	4500
13000120A				X	4576	221	5500	424	4500
13000121A				X	4576	221	5500	424	4500
13000122A				X	4576	221	5500	424	4500
13000060A				X	4576	221	5500	424	4500
13000061A				X	4576	221	5500	424	4500
13000062A				X	4576	221	5500	424	4500
13000063A				X	4576	221	5500	424	4500
13000123A				X	4576	221	5500	424	4500

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13000124A				X	4576	221	5500	424	4500
13000125A				X	4576	221	5500	424	4500
13000064A				X	4576	221	5500	424	4500
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13000067A				X	4576	221	5500	424	4500
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13000127A				X	4576	221	5500	424	4500
13000128A				X	4576	221	5500	424	4500
13000068A				X	4576	221	5500	424	4500
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13000071A				X	4576	221	5500	424	4500
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13000130A				X	4576	221	5500	424	4500
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13000072A				X	4576	221	5500	424	4500
13000073A				X	4576	221	5500	424	4500
13000074A				X	4576	221	5500	424	4500
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13000133A				X	4576	221	5500	424	4500
13000134A				X	4576	221	5500	424	4500
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13000081A				X	4576	221	5500	424	4500
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13000083A				X	4576	221	5500	424	4500
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13000140A				X	4576	221	5500	424	4500
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13000086A				X	4576	206	5500	404	4500
13000087A				X	4576	206	5500	404	4500

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13000088A			X	4576	206	5500	404	4500
13000089A			X	4576	206	5500	404	4500
13000090A			X	4576	206	5500	404	4500
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13000104A			X	4576	221	5500	424	4500
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12000039A			X	4576	168	4500	405	3750
13000141A			X	4576	236	6250	422	5000
13000142A			X	4576	236	6250	422	5000
13000143A			X	4576	236	6250	422	5000
13000144A			X	4576	236	6250	422	5000
13000145A			X	4576	236	6250	422	5000
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13000148A			X	4576	236	6250	422	5000
13000149A			X	4576	236	6250	422	5000
13000150A			X	4576	236	6250	422	5000
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13000152A			X	4576	236	6250	422	5000
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13000154A			X	4576	236	6250	422	5000
13000155A			X	4576	236	6250	422	5000
13000156A			X	4576	236	6250	422	5000



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13000157A				X	4576	236	6250	422	5000
13000158A				X	4576	236	6250	422	5000
13000159A				X	4576	236	6250	422	5000
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13000168A				X	4576	236	6250	422	5000
13000169A				X	4576	236	6250	422	5000
13000170A				X	4576	236	6250	422	5000
13000171A				X	4576	236	6250	422	5000
13000172A				X	4576	236	6250	422	5000
13000173A				X	4576	236	6250	422	5000
13000174A				X	4576	236	6250	422	5000
13000182A				X	4576	236	6250	422	5000
13000183A				X	4576	236	6250	422	5000
13000184A				X	4576	236	6250	422	5000
13000185A				X	4576	236	6250	422	5000
13000186A				X	4576	236	6250	422	5000
13000187A				X	4576	236	6250	422	5000
13000188A				X	4576	236	6250	422	5000
13000189A				X	4576	236	6250	422	5000
13000190A				X	4576	236	6250	422	5000
13000191A				X	4576	236	6250	422	5000
13000192A				X	4576	236	6250	422	5000
13000193A				X	4576	236	6250	422	5000
13000194A				X	4576	236	6250	422	5000
13000195A				X	4576	236	6250	422	5000
12500098A				X	4576	206	5500	423	4500
<b>13000212A</b>				<b>X</b>	<b>4576</b>	<b>236</b>	<b>6250</b>	<b>422</b>	<b>5000</b>

\* worst-case equivalent engine model used for certification testing (250hp XL ProXS DTS)