

California Air Resources Board (CARB) Listing of Certified Tier 4 Marine Engines and Marinized Tier 4 Final Non-Road Engines

This list reflects information compiled by CARB staff to provide commercial harbor craft owners/operators a list of Certified Tier 4 Marine Engines and Marinized Tier 4 Final Non-Road Engines. It does not constitute an endorsement of the listed engines and is intended as a resource only. This list is regularly updated by CARB staff. Manufacturers with Tier 4 engines not listed may contact HarborCraft@arb.ca.gov to request being added.

Table 1. EPA Certified Tier 4 Marine Engines¹

Manufacturer	Model	U.S. EPA Category	Power Range (kW)	Engine Weight (kg)	Engine Specifications Links	Date Added to List²
Yanmar	6AYEM-GTWS	1	670-749	2,418 (engine only)	Specifications Sheet	10/11/2023
Mitsubishi	S12-R	1	940	5,350 (engine only)	Specifications Sheet *Note: only the S12-R is Tier 4*	10/11/2023
Cummins	QSK38	1	746-1,119	5,270	Specifications Sheet	10/11/2023
Cummins	QSK60	1	1,491-2,013	10,154	Specifications Sheet	10/11/2023
Caterpillar	3512E	1	1,000-1,901	8,193	Specifications Sheet	10/11/2023

¹ [Annual Certification Data for Vehicles, Engines, and Equipment | US EPA](#)

² 2/15/24 Edit - added a column for the date each engine was added to this list of tier 4 engines.

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Caterpillar	3516E	1	1,865-2,525	9,620	Specifications Sheet	10/11/2023
Caterpillar	C32	1	746-1081	3,248	Specifications Sheet	10/11/2023
Caterpillar	C280-8	2	2,460-2530	19,000	Specifications Sheet	10/11/2023
Caterpillar	C280-12	2	3,700-4,060	26,035	Specifications Sheet	10/11/2023
MTU	12V-4000M05	1	1,119-1,932	8,000 (engine only)	Specifications Sheet	10/11/2023
MTU	16V-4000M05	1	1,840-2,576	9,300 (engine only)	Specifications Sheet	10/11/2023
MTU	20V-4000M05	1	2,300-3,220	11,600 (engine only)	Specifications Sheet	10/11/2023
MAN Diesel	D2862 Series	1	749	2,270	Specifications Sheet	10/11/2023
Baudouin	6M-26.3	1	441-599	2,185	Specifications Sheet	10/11/2023

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Baudouin	12M-26.3	1	883-1214	3,615	Specifications Sheet	10/11/2023
GE	6L250 MDC	2	1,700-1,900	19,944	Specifications Sheet	10/11/2023
GE	8L250 MDC	2	2,250-2,500	23,356	Specifications Sheet	10/11/2023
GE	12V250 MDC	2	3,150-3,500	27,080	Specifications Sheet	10/11/2023
GE	16V250 MDC	2	4,200-4,700	35,788	Specifications Sheet	10/11/2023
EMD 710 Series	8E 23	2	1,250	14,742	Specifications Sheet	10/11/2023
EMD 710 Series	12E 23	2	-	19,414	Specifications Sheet	10/11/2023
EMD 710 Series	12E 23B	2	-	23,133	Specifications Sheet	10/11/2023
EMD 710 Series	16E 23	2	-	22,589	Specifications Sheet	10/11/2023
EMD 710 Series	20E 23	2	3,729	25,719	Specifications Sheet	10/11/2023

Table 2. Marinized EPA Certified Tier 4 Final Non-Road Engines

Manufacturer	Model	U.S. EPA Category	Power Range (kW)	Engine Weight (kg)	Engine Specifications Links	Date Added to List
M&H Engineering	M&H John Deere 4045MD	1	55-130	570	Specifications Sheet	10/11/2023
M&H Engineering	M&H John Deere 6068MD	1	169-224	750	Specifications Sheet	10/11/2023
M&H Engineering	M&H John Deere 6090MD	1	205-317	1,056	Specifications Sheet	10/11/2023