

## 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](mailto:HarborCraft@arb.ca.gov) to request being added.*

**Table 1.** EPA Certified Tier 4 Marine Engines<sup>1</sup>

| Manufacturer and U.S. EPA Engine Family Name (EFN) | Model              | U.S. EPA Engine Category | Power Rating (kW) | Engine Weight (kg) (Dry) | Engine Specifications Links                                                     | Date Added to List <sup>2</sup> |
|----------------------------------------------------|--------------------|--------------------------|-------------------|--------------------------|---------------------------------------------------------------------------------|---------------------------------|
| Yanmar<br>NYDXN20.4E6S                             | 6AYE<br>M-GT<br>WS | 1                        | 670-749           | 2,418<br>(engine only)   | <a href="#">Specifications Sheet</a>                                            | 10/11/2023                      |
| Mitsubishi<br>PMVXN49.0DCA                         | S12-R              | 1                        | 940               | 5,350<br>(engine only)   | <a href="#">Specifications Sheet</a><br><b>*Note:</b> only the S12-R is Tier 4* | 10/11/2023                      |
| Cummins<br>RCEXN38.0AAC                            | QSK38              | 1                        | 746-1,119         | 5,270                    | <a href="#">Specifications Sheet</a>                                            | 10/11/2023                      |
| Cummins<br>RCEXN60.0AAC                            | QSK60              | 1                        | 1,491-2,013       | 10,154                   | <a href="#">Specifications Sheet</a>                                            | 10/11/2023                      |
| Caterpillar<br>RCPXN78.1AT4                        | 3512E              | 1                        | 1,000-1,901       | 8,193                    | <a href="#">Specifications Sheet</a>                                            | 10/11/2023                      |
| Caterpillar<br>RCPXN78.1AT4                        | 3516E              | 1                        | 1,865-2,525       | 9,620                    | <a href="#">Specifications Sheet</a>                                            | 10/11/2023                      |

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

<sup>2</sup> 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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| <b>Manufacturer<br/>and<br/>U.S. EPA Engine<br/>Family Name<br/>(EFN)</b>                     | <b>Model</b>             | <b>U.S. EPA<br/>Engine<br/>Category</b> | <b>Power<br/>Rating<br/>(kW)</b> | <b>Engine<br/>Weight<br/>(kg)<br/>(Dry)</b> | <b>Engine<br/>Specifications<br/>Links</b> | <b>Date<br/>Added to<br/>List<sup>2</sup></b> |
|-----------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------------------|
| Caterpillar<br>RCPXN32.1EP4                                                                   | C32                      | 1                                       | 746-10<br>81                     | 3,248                                       | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| Caterpillar<br>RCPXN296.EA4                                                                   | C280-<br>8               | 2                                       | 2,460-2<br>530                   | 19,000                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| Caterpillar<br>RCPXN296.EA4                                                                   | C280-<br>12              | 2                                       | 3,700-4<br>,060                  | 26,035                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| MTU<br>RMDDN76.3MTS                                                                           | 12V-4<br>000M0<br>5      | 1                                       | 1,119-1<br>,932                  | 8,000<br>(engine<br>only)                   | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| MTU<br>RMDDN76.3MTS                                                                           | 16V-4<br>000M0<br>5      | 1                                       | 1,840-2<br>,576                  | 9,300<br>(engine<br>only)                   | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| MTU<br>RMDDN76.3MTS                                                                           | 20V-4<br>000M0<br>5      | 1                                       | 2,300-3<br>,220                  | 11,600<br>(engine<br>only)                  | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| MAN Diesel<br><br>With Original<br>Equipment<br>manufacturer<br>(OEM) SCR<br><br>RMNBN24.2CO4 | D2862<br>Series<br>LE428 | 1                                       | 749                              | 2,270                                       | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |

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| <b>Manufacturer<br/>and<br/>U.S. EPA Engine<br/>Family Name<br/>(EFN)</b> | <b>Model</b>                      | <b>U.S. EPA<br/>Engine<br/>Category</b> | <b>Power<br/>Rating<br/>(kW)</b> | <b>Engine<br/>Weight<br/>(kg)<br/>(Dry)</b> | <b>Engine<br/>Specifications<br/>Links</b> | <b>Date<br/>Added to<br/>List<sup>2</sup></b> |
|---------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------------------|
| MAN Diesel<br>With OEM SCR<br>RMNBN24.2CO4                                | D2862<br>Series<br>LE438          | 1                                       | 882                              | 2,270                                       | <a href="#">Specification<br/>Sheet</a>    | 06/27/2024                                    |
| MAN Diesel<br>With OEM SCR<br>RMNBN24.2CO4                                | D2862<br>Series<br>LE469          | 1                                       | 974                              | 2,270<br>(dry<br>engine)                    | <a href="#">Specification<br/>Sheet</a>    | 06/27/2024                                    |
| MAN Diesel<br>With OEM SCR<br>RMNBN24.2CO4                                | D2862<br>Series<br>LE489          | 1                                       | 1066                             | 2,420<br>(dry<br>engine)                    | <a href="#">Specification<br/>Sheet</a>    | 06/27/2024                                    |
| MAN Diesel<br>With OEM<br>DOC/DPF/SCR<br>RMNBN24.2CO5                     | D2862<br>Series<br>Model<br>LE44A | 1                                       | 735                              | 2270<br>(dry<br>engine)                     | <a href="#">Contact MAN</a>                | 07/30/2024                                    |
| MAN Diesel<br>With OEM<br>DOC/DPF/SCR<br>RMNBN24.2CO5                     | D2862<br>Series<br>Model<br>LE43B | 1                                       | 882                              | 2270<br>(dry<br>engine)                     | <a href="#">Contact MAN</a>                | 07/30/2024                                    |
| MAN Diesel<br>With OEM<br>DOC/DPF/SCR                                     | D2862<br>Series<br>Model<br>LE48B | 1                                       | 1066                             | 2420<br>(dry<br>engine)                     | <a href="#">Contact MAN</a>                | 07/30/2024                                    |

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| <b>Manufacturer<br/>and<br/>U.S. EPA Engine<br/>Family Name<br/>(EFN)</b> | <b>Model</b>  | <b>U.S. EPA<br/>Engine<br/>Category</b> | <b>Power<br/>Rating<br/>(kW)</b> | <b>Engine<br/>Weight<br/>(kg)<br/>(Dry)</b> | <b>Engine<br/>Specifications<br/>Links</b> | <b>Date<br/>Added to<br/>List<sup>2</sup></b> |
|---------------------------------------------------------------------------|---------------|-----------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------------------|
| RMNBN24.2CO5                                                              |               |                                         |                                  |                                             |                                            |                                               |
| Baudouin<br>KMRBN26.4COM                                                  | 6M-26.<br>3   | 1                                       | 441-59<br>9                      | 2,185                                       | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| Baudouin<br>KMRBN26.4COM                                                  | 12M-2<br>6.3  | 1                                       | 883-12<br>14                     | 3,615                                       | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| GE Wabtec<br>RGETN15.7FBC                                                 | 6L250<br>MDC  | 2                                       | 1,700-1<br>,900                  | 19,944                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| GE Wabtec<br>RGETN15.7FBC                                                 | 8L250<br>MDC  | 2                                       | 2,250-2<br>,500                  | 23,356                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| GE Wabtec<br>RGETN15.7FBA                                                 | 12V25<br>0MDC | 2                                       | 3,150-3<br>,500                  | 27,080                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| GE Wabtec<br>RGETN15.7FBB                                                 | 16V25<br>0MDC | 2                                       | 4,200-4<br>,700                  | 35,788                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| EMD 710 Series<br>NEMDN233.TSC                                            | 8E 23         | 2                                       | 1,250                            | 14,742                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| EMD 710 Series<br>NEMDN233.TSC                                            | 12E 23        | 2                                       | -                                | 19,414                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |

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| <b>Manufacturer<br/>and<br/>U.S. EPA Engine<br/>Family Name<br/>(EFN)</b> | <b>Model</b> | <b>U.S. EPA<br/>Engine<br/>Category</b> | <b>Power<br/>Rating<br/>(kW)</b> | <b>Engine<br/>Weight<br/>(kg)<br/>(Dry)</b> | <b>Engine<br/>Specifications<br/>Links</b> | <b>Date<br/>Added to<br/>List<sup>2</sup></b> |
|---------------------------------------------------------------------------|--------------|-----------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------------------|
| EMD 710 Series<br>NEMDN233.TSC                                            | 12E<br>23B   | 2                                       | -                                | 23,133                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |
| EMD 710 Series<br>NEMDN233.TSC                                            | 16E 23       | 2                                       | -                                | 22,589                                      | <a href="#">Specifications<br/>Sheet</a>   | 10/11/2023                                    |

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

| <b>Manufacturer<br/>and U.S. EPA<br/>Engine Family<br/>Name<br/>(EFN)</b> | <b>Model</b>                                        | <b>U.S. EPA<br/>Category</b> | <b>Power<br/>Range<br/>(kW)</b> | <b>Engine<br/>Weight<br/>(kg)<br/>Dry</b> | <b>Engine<br/>Specifications<br/>Links</b> | <b>Date<br/>Added to<br/>List</b> |
|---------------------------------------------------------------------------|-----------------------------------------------------|------------------------------|---------------------------------|-------------------------------------------|--------------------------------------------|-----------------------------------|
| M&H Engines<br>NJDXL06.8309<br>With OEM<br>DOC/DPF/SCR                    | M&H<br>Engines<br>M4.5<br><br>John<br>Deere<br>4045 | 1                            | 55-129                          | 570                                       | <a href="#">Specifications<br/>Sheet</a>   | 07/15/2024                        |
| M&H Engines<br>NJDXL06.8309<br>With OEM<br>DOC/DPF/SCR                    | M&H<br>Engines<br>M6.8<br><br>John<br>Deere<br>6068 | 1                            | 169-224                         | 785                                       | <a href="#">Specifications<br/>Sheet</a>   | 07/15/2024                        |
| M&H Engines<br>KJDXL09.0308<br>With OEM<br>DOC/DPF/SCR                    | M&H<br>Engines<br>M9<br><br>John<br>Deere<br>6090   | 1                            | 205-317                         | 1,097                                     | <a href="#">Specification<br/>Sheet</a>    | 07/15/2024                        |