

Pursuant to the authority vested in California Air Resources Board by Health and Safety Code Divisions 25.5 and 26, Part 5, Chapter 2; 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:** The following on-road motor vehicles with a manufacturer's GVWR over 26,000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

**VEHICLE FAMILY INFORMATION:**

Model Year: 2024

Vehicle Family Name: RDTN2TRAC31C

Vehicle Type: Tractor

Vehicle Subcategory: Heavy Class 8 Mid-Roof Day Cab

**CO<sub>2</sub> FAMILY EMISSION LIMITS:**

CO<sub>2</sub> Standard (g/ton-mile): 52.8

Highest Projected Family Emission Limit (g/ton-mile): 70.1

Lowest Projected Family Emission Limit (g/ton-mile): 48.9

**EMISSION CONTROL SYSTEMS:**

Low rolling resistance tires (all) (LRRR), Low rolling resistance tires (steer) (LRRS), Low rolling resistance tires (drive) (LRRD), Weight reduction (WR), Aerodynamic roof fairing (ARF), Aerodynamic side skirt and/or fuel tank fairing (ATS)

**BE IT FURTHER RESOLVED:** The listed vehicle family is certified to the CO<sub>2</sub> Emission Standards for Heavy-Haul Tractors as specified in Section 1037.106 or to the Optional CO<sub>2</sub> Emission Standards for Tractors at or above 120,000 pounds GCWR specified in Section 1037.670 of the "California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and Subsequent Model Heavy-Duty Vehicles" (HDV Test Procedures) adopted October 21, 2014, as last amended September 9, 2021.

**BE IT FURTHER RESOLVED:** The manufacturer has demonstrated certification compliance with the Greenhouse Gas Emission Standards as specified in Title 17 CCR 95663 and the incorporated "California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and Subsequent Model Heavy-Duty Vehicles" (HDV Test Procedures) adopted October 21, 2014 as last amended September 9, 2021.

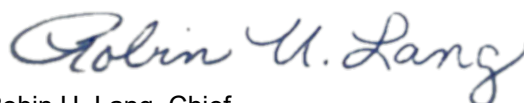
**BE IT FURTHER RESOLVED:** For the listed air conditioning platform(s) in the attachment, the manufacturer has demonstrated certification compliance with the AC Leakage Standard specified in 17 CCR 95663(a)(2)(B)3 and Section 1037.115 of the incorporated "California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and Subsequent Model Heavy-Duty Vehicles (HDV Test Procedures) adopted October 21, 2014, as last amended September 9, 2021.

**BE IT FURTHER RESOLVED:** For the listed vehicle models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1978 (complete vehicles) (vehicle refueling emissions standards), and 13 CCR 2035 et seq. (emission control warranty).

**BE IT FURTHER RESOLVED:** The engine families that are approved for installation within the vehicle family are listed in the attachment.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

Executed on this 21st day of December 2023.



Robin U. Lang, Chief  
Emissions Certification and Compliance Division

**Vehicle Make and Models:****Vehicle Make**

Freightliner  
Western Star

**Models**

Cascadia (116, 126), M2 (106, 112), 108SD, 114SD, 122SD  
47X, 49X, 57X

**Engine Families in Vehicle Family:**

|               |              |
|---------------|--------------|
| PDDXH12.8TCC  | PDDXH14.8TCC |
| PDDXH15.6GEC  | PCEXH0721XCA |
| PCEXH0729XDA  | PCEXH0729XDB |
| PCEXH0912XCA  | PCEXH0912XCB |
| PCEXH0912XCC  |              |
| RDDXH12.8NXC  | RDDXH14.8TCC |
| RPDDXH15.6GEC | RCEXH0721XCA |
| RCEXH0540LCA  | RCEXH0912XEA |
| RCEXH0912XEB  | RCEXH0912XEC |

**A/C Platform Summary:**

| <b><u>A/C Platform ID</u></b> | <b><u>Refrigerant Type</u></b> | <b><u>Refrigerant Capacity (g)</u></b> | <b><u>STD (HFC (g/year))</u></b> | <b><u>Leakage Rate (HFC (g/year))</u></b> |
|-------------------------------|--------------------------------|--|----------------------------------|---|
| P4 116, 126 Day               | R-134a                         | 1305                                   | 19.6                             | 9.4                                       |
| W4 121 Day with RMC           | R-134a                         | 2043                                   | 30.6                             | 13.0                                      |
| M2 Day                        | R-134a                         | 1305                                   | 19.6                             | 10.4                                      |
| M2 Crew                       | R-134a                         | 1476                                   | 22.1                             | 13.8                                      |
| 24U 132 Day                   | R-134a                         | 1419                                   | 21.3                             | 10.2                                      |
| WST Day Cab                   | R-134a                         | 1532                                   | 23.0                             | 10.5                                      |
| WST Day Cab with Roof         | R-134a                         | 2202                                   | 33.0                             | 17.3                                      |