

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 10,000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	VEHICLE FAMILY NAME	VEHICLE TYPE	VEHICLE SERVICE CLASS	SUBCATEGORY (VEHICLE SIZE / ENGINE CYCLE / DUTY CYCLE)	VEHICLE MAKE & MODELS
2021	MDTN2VOCV05R	Vocational	Heavy HDV	Heavy HDV / Diesel / Regional	FCCC: Chassis (XBA, XBP, XBR, XBS, XCL, XCM, XCP, XCR, XCS); S2, S2C, S2G, S2RV Western Star: 4700SB, 4700SF, 4900EX, 4900FA, 4900SA, 5700XE, 6900XD Thomas Built Buses: Saf-T-Liner (C2, EFX, HDX) Freightliner: Cascadia (113, 125, 116, 126); M2 (106, 112); 108SD, 114SD, 122SD, EconicSD

**EMISSION CONTROL SYSTEMS**

LRRR, LRRS, LRRD, WR

\*=not applicable; **VSL** = Vehicle speed limiter; **VSLs** = "Soft-top" vehicle speed limiter; **VSLE** = Expiring vehicle speed limiter; **VSLD** = Vehicle speed limiter with both "soft-top" and expiration; **IRT5** = Engine shutoff after 5 minutes or less of idling; **IRTE** = Expiring engine shutoff; **LRRR** = Low rolling resistance tires (all); **LRRD** = Low rolling resistance tires (drive); **LRRS** = Low rolling resistance tires (steer); **ATS** = Aerodynamic side skirt and/or fuel tank fairing; **ARF** = Aerodynamic roof fairing; **ARFR** = Adjustable height aerodynamic roof fairing; **TGR** = Gap reducing tractor fairing (tractor to trailer gap); **ADVH** = Vehicle includes advanced hybrid technology components; **ADVO** = Vehicle includes other advanced-technology components (i.e., non-hybrid system); **INV** = Vehicle includes innovative (off-cycle) technology components; **ATI** = Automatic tire inflation system; **TPMS** = Tire pressure monitoring system; **WR** = Weight Reduction

Shown below are the CO<sub>2</sub> Greenhouse Gas Exhaust Emission Standard (STD) in g/ton-mile and/or the CO<sub>2</sub> Family Emission Limit(s) (FEL) of the listed vehicle family in g/ton-mile as applicable under 17 CCR 95663:

GVWR (pounds)	STD [CO <sub>2</sub> (in g/ton-mile)]	Highest Projected FEL [CO <sub>2</sub> (in g/ton-mile)]	Lowest Projected FEL [CO <sub>2</sub> (in g/ton-mile)]
GVWR > 33,000	205	261	193

**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 June 27, 2019.

**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)(1)(B)7 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 June 27, 2019.

**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), and 13 CCR 2035 et seq. (emission control warranty).



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

This Executive Order hereby supersedes Executive Order A-395-0121 dated January 07, 2021

Executed on this 27<sup>th</sup> day of November 2021.

A handwritten signature in blue ink, appearing to read "Allen Lyons".

Allen Lyons, Chief  
Emissions Certification and Compliance Division

## A/C PLATFORM SUMMARY TABLE

Vehicle family	Date	EO
MDTN2VOCV05R	02/12/2021	A-395-0121-2

A/C Platform ID	Refrigerant Type	Refrigerant Capacity (g)	STD (HFC (g/year))	Leakage Rate (HFC (g/year))
P4 116,126 48"60"72"SLP	R-134a	1816	27.2	11.3
P4 116,126 48"60"72" w Park	R-134a	2497	37.5	16.5
P4 114,126 48"60"72"w TriPac	R-134a	2723	40.8	34.4
24 U 132 slp 70	R-134a	1861	27.9	11.8
24 U 132 slp w NITE	R-134a	2484	37.3	13.3
WST Sleeper	R-134a	1759	26.4	19.9
WST Sleeper RestStar	R-134a	2198	33.0	21.5
P4 116, 126 Day	R-134a	1305	19.6	9.4
W4 121 Day with RMC	R-134a	2043	30.6	13.4
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
M2 Day	R-134a	1305	19.6	10.4
M2 Crew	R-134a	1476	22.1	13.8
B2 (Best Case)	R-134a	5398	81.0	51.5
B2 (Worst Case)	R-134a	3470	52.1	50.6
B2 (Highest Projected Sales)	R-134a	3992	59.9	49.1
EFX (Best Case)	R-134a	3401	51.0	40.5
EFX (Worst Case)	R-134a	4082	61.2	49.3
EFX (Highest Projected Sales)	R-134a	4082	61.2	49.3
HDX (Best Case)	R-134a	8618	129.3	36.8
HDX (Worst Case)	R-134a	4082	61.2	49.2

HDX (Highest Projected Sales)	R-134a	4082	61.2	37.2
S2C (Best Case)	R-134a	9992	149.9	55.5
S2C (Worst Case)	R-134a	3350	50.3	46.8
S2C (Highest Projected Sales)	R-134a	3350	50.3	46.8
S2G (Dash-only A/C - One A/C Configuration)	R-134a	1310	19.7	12.7
S2RV (Dash - only A/C - One A/C Configuration)	R-134a	1310	19.7	12.8
X-LINE (Best Case)	R-134a	3180	47.7	25.5
X-LINE (Worst Case)	R-134a	1644	24.7	24.1
X-LINE (Highest Projected Sales)	R-134a	2500	37.5	25.2