

VOLVO POWERTRAIN NORTH AMERICA A DIVISION OF MACK TRUCKS, INC.

EXECUTIVE ORDER A-242-0156 New On-Road Heavy-Duty Motor Vehicles Page 1 of 2

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.

MODEL YEAR	VEHICLE FAMILY NAME	VEHICLE TYPE	VEHICLE SERVICE CLASS	SUBCATEGORY	VEHICLE MAKE & MODELS
2021	MVPT2TRAC900	Tractor	Heavy HDV	High-Roof Sleeper Cab	Volvo: VNL, VNR Mack: Pinnacle PI (CHU), Anthem AN(CXU)

EMISSION CONTROL SYSTEMS

LRRS, LRRD, LRRA, ATS, WR, VSL, ARF

*=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; LRRA = Low rolling resistance tires (all); LRRD = Low rolling resistance tires (steer); ATS = Aerodynamic side skirt and/or fuel tank fairing; ARF = Aerodynamic roof fairing; ARF = Adjustable height aerodynamic roof fairing; TGR = Gap reducing tractor fairing; TGR = Gap reducing 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 CO₂ Greenhouse Gas Exhaust Emission Standard (STD) in g/ton-mile and/or the CO₂ Family Emission Limit(s) (FEL) of the listed vehicle family in g/ton-mile as applicable under 17 CCR 95663:

GVWR (pounds)	STD [CO₂ (in g/ton-mile)]	Highest Projected FEL [CO ₂ (in g/ton-mile)]	Lowest Projected FEL [CO₂ (in g/ton-mile)]	
GVWR > 33,000	75.7	102.0	73.2	

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)(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 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).

BE IT FURTHER RESOLVED: The listed vehicle models on this Executive Order are certified conditionally on the manufacturer providing responses for information in a timely manner, and the California Air Resources Board approving that information, that are compliant with the California Greenhouse Gas Exhaust Emissions and Test Procedures for 2014 and Subsequent Model Heavy-Duty Vehicles (last amended June 27, 2019), as described in the manufacturer's request for Conditional Executive Order dated January 12, 2021.

Failure to provide the above information within 90 days of the effective date of this Executive Order, or failure of the information to be approved by the California Air Resources Board may be cause for the Executive Officer to rescind this conditional certification, in which case all vehicles covered under this conditional certification would be deemed uncertified and subject to a civil penalty of up to \$40,050 per violation per vehicle pursuant to HSC Section 43154.



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EXECUTIVE ORDER A-242-0156 New On-Road Heavy-Duty Motor Vehicles Page 2 of 2

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

Executed on this <u>20th</u> day of January 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

A/C PLATFORM SUMMARY TABLE

Vehicle family	Date	EO	
MVPT2TRAC900	01/12/2021	A-242-0156	

A/C Platform ID	Refrigerant Type	Refrigerant	STD	Leak Rate
		Capacity (g)	(HFC (g/year))	(HFC (g/year))
VNL: L3 13L	R134a	1710	25.7	10.7
VNL: L3 11L	R134a	1710	25.7	10.7
VNR: L3 11L	R134a	1710	25.7	10.7
CXU: 70" SLEEPER11L	R134a	1820	27.3	11.5
CXU: 70" SLEEPER13L	R134a	1820	27.3	11.4