

CUMMINS INC.

Executive Order: A-021-0765

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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Pursuant to the authority vested in California Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

SYSTEMS OBD STATUS (L) 1 TC, CAC, DFT, EGR, EGRC, OC, DPF, SCRC, NH3OC, RDQS, NOXS(2), PMS * PARTIAL * PARTIAL * PARTIAL WITH ALL MODELS EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS * * EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR NMOG CREDIT FOR DOR NMOG CREDIT FOR DOR NMOG CREDIT FOR DOR NMOG AND FLEET AVERAGE INFORMATION NMOG AND FLEET AVERAGE INFORMATION	TEST GROUP INFORMATION															
USEFUL LIFE (miles)			TEST GROUP			VEHICLE CLASS(ES)				FUEL (CATEGORY		FUEL TYPE			
EXH/ORVR EVAP FTP SFTP FTP SFTP 150000 * LEV3 ULEV200 US06, SC03, FTP TEST CYCLE) * * * * * * * * * * * * * * * * * * *	202	3 P	CEXD0	6.78VV		MDV4							DIESEL			
LEV3 ULEV200 LEV3 ULEV (FULL US06, SC03, FTP TEST CYCLE) X		USEFU	IL LIFE	E (miles)	•	VEH	VEHICLE EMISSION CATEGO				INTERIM / II	NTER	RMEDIATE IN-USE STD			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS OBD STATUS ENGINE DISPLACEMENT (L) 1	_ ` ` '					FTP				SFTP FTP			SFTP			
SYSTEMS OBD STATUS (L) 1 TC, CAC, DFT, EGR, EGRC, OC, DPF, SCRC, NH3OC, RDQS, NOXS(2), PMS * * PARTIAL * 6.7 * PARTIAL WITH ALL MODELS EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS * * * * * * * * * EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG AND FLEET AVEAGE INFORMATION NMOG AND FLEET AVEAGE INFORMATION NMOG AND FLEET AVEAGE INFORMATION	150000 *					LEV3	EV3 ULEV200 US06, SC0			03, FTP	*		*			
* * * * * * * * * * * * * * * * * * *									OBD STATUS			E	ENGINE DISPLACEMENT (L)			
* * * * PARTIAL WITH FINES ALL MODELS EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY VEHICLE CLASS SPECIAL FEATURES * * * * * * * * * * * * * * * * * * *								,		FULL	*					
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURES * * * * * * * * * * * * * * * * * * *	*				*		F			ARTIAL *			6.7			
EVAP / ORVR FAMILY * * EVAPORATIVE STD CATEGORY * * EVAP EMISSION STD VEHICLE CLASS * EMISSION CREDIT INFORMATION * * * * * * * * * * * * *	* *									I ATT MODETS						
* * * * * * * * * * * * * * * * * * *	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION															
EMISSION CREDIT INFORMATION NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY N N N N N N N N N N N N N N N N N N	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						GORY	•			SPECIAL FEATURES					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY N N N N N N N N N N N N N N N N N N	*						*			*			*			
CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV NMOG CREDIT FOR DOR FOR WORK TRUCKS N N N N N NMOG AND FLEET AVERAGE INFORMATION	EMISSION CREDIT INFORMATION															
NMOG AND FLEET AVERAGE INFORMATION ETP NMOGENOY ELEET STD NMOGENOY ELEET STD NMOGENOY ELEET STD		REDIT F	OR EX	KTENDED						NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS			
ETP NMOG+NOY ELEET STD NMOG+NOY ELEET STD NMOG+NOY ELEET ST	N N							N				N				
FTP NMOG+NOX FLEET STD NMOG+NOX FLEET STD NMOG+NOX FLEET ST	NMOG AND FLEET AVERAGE INFORMATION															
NMOG CH4 RAF NMOG/NMHC RATIO	NMOG RAF	DAE DAE NMOG/NMHC				LDT (3751 LVW-8500			SVW) MDV (8501-10000 GVW			R) MDV (10,001-14,000				
* * * * * * * *	*	*		* * *						*		*				

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

BE IT FURTHER RESOLVED:

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the vehicles has been determined to have six (6) deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of one hundred fifty dollars (\$150) per vehicle for the third through sixth deficiencies in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the California Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2023 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$42,450 per violation per vehicle pursuant to HSC Section 43154.

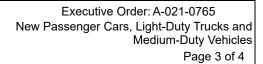
Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this 24th day of October 2022.

Robin U. Lang, Chief

Emissions Certification and Compliance Division





ATTACHMENT

	EXH	AUS	ST ANI) EVA	POR	ATIV	E EMIS	SION	STAN	NDAR	OS AN	D CER	TIFIC	CATION	LEV	'ELS)	
	FU			T EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP														
				NMHC+NOx (g/mi)			CO (g/mi)				Ox /mi)		HCH (mg/r			PM (g/mi)		
			C			STD	CERT	ST	D	CERT	CERT STD CER		RT	T STD		RT	STD	
FTP@5	0K	*		*		*	*	*		*	*	* *		*	,	ł	*	
FTP@l	JL DII	ESEL	-EPA	0.180	1 0	.200	0.8	4.	2	*	*	*		6	0.0	001	0.008	
50°F @	4K	*		*		*	*	*		*	*	* *		*				
					FUE	L TY	PE			NMHC+NOx (g/m			-	+		O (g/mi)		
							_			CE	RT	ST)	CERT		STD		
HWFE.	T @ 50K	(*		*				,	*	*						
HWFE	T@UL			DIESEL-			:PA			0.0	012	0.2	0.200					
20°F @ 50K						*							*				*	
								STAND	ARDS	DS AND CERTIFICATION LEVELS								
				US06						SC03				COMPOSITE				
	FUEL TY		≣	NM	HC+N	Ох	СО	Р	M	NMHC+NOx		СО			/IHC+NOx		PM	
					(g/mi)		(g/mi)	(mg	(mg/mi)		(g/mi)		(g/mi)		(g/mi) (g		(mg/mi)	
@ 4K	*	* CEF		г	*		*			*		*						
@ 41.					*		*			,	*	*						
		CEF IESEL-EPA STI		Γ	*		*	* *		*		*	0.107		0.3		3	
@ UL	DIESE				*		*	* *		*		*	0.800		22.0		10	
													*					
		W	/HOLE \	/EHICL	E EVA	POR	ATIVE EN	MISSION	N STAI	NDARD	S AND	CERTIFI	CATIC	N LEVE	LS			
						WHOLE VEHICLE EVAPORATIVE TESTING						_						
EVAPORATIVE FAMILY		Έ	FUEL TY		YPE 3DI		g/test) @	UL	JL		2DHS (g/test)		<u> </u>		RL (g/r	(g/mi) @ UL		
					CER	Т	STD	FEL					FEL		RT	STD		
*			*		*		*	*		t	* *			* *				
ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													LS					
E)/45	OD 4 T !! !	ATIVE OBV		lalaci	lon\ @						JEL ONLY EVAP & CA		ANISTER BLEED IS RIG TEST BLEED CAN			MICTER		
EVAPORATIVE FAMILY		' -			(g/gallon) @		FUEL	TYPE			est) @ UL		(g/test) @				st) @ 4K	
		F	FUEL TYPI		ERT	STD	_		_	ERT	STD	CER		STD	CEF		STD	
*			*	* *				*		* *		*		*		* *		
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)																		
EVAF	PORATI	VE F	AMILY		LEAK	FAM	IILY			CER	Γ				STD			
*				*					*					*				



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: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: .DT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV; medium-duty vehicle; MDV4; MDV 8501-10000#GVWR; MDV5; MDV 10001-14000#GVWR; MDPV; mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi -automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission: AMS: automated manual-selectable transmission: OT: other transmission: AER: all-electric range: EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

2023 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
RAM	RAM 2500 4X2	MDV4	6.7	A6	*	1	\$
RAM	RAM 2500 4X4	MDV4	6.7	A6	*	1	\$