

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 (L) 1 DFI, TWC, HO2S, WR-HO2S, TC, CAC FULL ALL MODELS * * * PARTIAL * * * PARTIAL * PARTIAL * 2.0 * * PARTIAL * EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION PARTIAL WITH FINES * EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURES NGMXR009537C LEV 3 OPTION2 WITH FEL LDT2 HCT NGMXR012637A LEV 3 OPTION2 WITH FEL LDT2 HCT NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED NMOG CREDIT INFORMATION OPTIONAL EXH. ST FOR WORK TRUCK NMOG AND FLEET AVE. CREDIT FOR EXTENDED NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR OPTIONAL EXH. ST FOR WORK TRUCK N N N N N NMOG AND FLEET AVE. CREDIT FOR EXTENDED NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR OPTIONAL EXH. ST FOR WORK TRUCK NMOG AND FLEET AVE. CREDIT FOR EXTENDED NMOG AND FLEET STD UD (3751 LVW-8500 GVWR) (g/mi) NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)						TEST GRO	DUP IN	FOR	MATION				
2022 NGMXT02.0500 LDT2, LDT3 VEHICLE GASOLINE USEFUL LIFE (miles) VEHICLE EMISSION CATEGORY INTERIM / INTERIM / INTERMEDIATE IN-USE ST EXH/ORVR EVAP FTP SFTP FTP SFTP 150000 150000 LEV3 SULEV30 LEV 3 COMPOSITE * PM SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS OBD STATUS ENGINE DISPLACEME (L) 1 DFI, TWC, HO2S, WR-HO2S, TC, CAC FULL ALL MODELS * * * PARTIAL * * * * PARTIAL * 2.0 * * * PARTIAL * 2.0 * * * PARTIAL * 2.0 * * * * PARTIAL * * * * PARTIAL * 2.0 *		- I T	EST GROUP	LE CLASS(ES)			FUEL C	ATEGORY		FUEL TYPE			
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SYSTEMS (L) 1 DFI, TWC, HO2S, WR-HO2S, TC, CAC FULL ALL MODELS * * * PARTIAL * * PARTIAL WITH FINES * 2.0 * * PARTIAL WITH FINES * EVAP / ORVR FAMILY EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION SPECIAL FEATURES EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURES NGMXR009537C LEV 3 OPTION2 WITH FEL LDT2 HCT NGMXR012637A LEV 3 OPTION2 WITH FEL LDT3 HCT WOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-PZEV ZERO-EVAP NMOG CREDIT FOR DOR NMOG CREDIT FOR ON PONCHAL EXH. ST FOR WORK TRUCK OPTIONAL EXH. ST FOR WORK TRUCK NMOG N N N NMOG RAFT HCHO/NMHC RATIO NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi) NMOG+NOX FLEET STD DMOG+NOX FLEET STD DMOG+NOX FLEET STD DD (3751 LVW-8500 GVWR) (g/mi) NMOG+NOX FLEET STD MDV (10.001-14.000 GVWR) (g/mi)	15	0000	15000)	LEV3	SULEV30	LEV	3 CC	MPOSITE	*		PM	
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NGMXR015740B LEV 3 OPTION2 WITH FEL LDT3 HCT IDT3 MCT IDT3 MCT <td c<="" td=""><td>N</td><td>IGMXR00</td><td>9537C</td><td>L</td><td>EV 3 OPTI</td><td>ION2 WITH</td><td>FEL</td><td></td><td colspan="3">LDT2</td><td>HCT</td></td>	<td>N</td> <td>IGMXR00</td> <td>9537C</td> <td>L</td> <td>EV 3 OPTI</td> <td>ION2 WITH</td> <td>FEL</td> <td></td> <td colspan="3">LDT2</td> <td>HCT</td>	N	IGMXR00	9537C	L	EV 3 OPTI	ION2 WITH	FEL		LDT2			HCT
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NMOG RAFCH4 RAFFTP NMOG/NMHC RATIOHCHO/NMHC RATIONMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)			N			N				N	N		
NMOG CH4 NMOG/NMHC HCHO/NMHC PC+LDT (0-3750 LVW) LDT (3751 LVW-8500 MDV (10,001-14,000) RAF RAF RATIO PC+LDT (0-3750 LVW) GVWR) + MDPV (g/mi) MDV (10,001-14,000)	NMOG AND FLEET AVERAGE INFORMATION												
			CH4 NMOG/NMHC HCHO/NMHC PC+LDT (0-375			0-375	-	VW) LDT (3751 LVW-8500) MDV (10,001-14,000		
* * 0 * 0.051 0.056 *	*	*	0		*	0	.051			0.056		*	

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.)



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).

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 <u>23rd</u> day of March 2021.

Allen Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST 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

				6+NOx mi)		O mi)		Ox mi)	HC (mg	-		PM J/mi)	
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K		*	*	*	*	*	*	*	*	*	*	*	
FTP@UL		SOLINE- R3 E10	0.026	0.030	0.8	1.0	*	*	*	4	0.002	0.003	
50°F @4K		*	*	*	*	*	*	*	*	*			
				FUEL TYP	-	<u>.</u>	NN	IOG+N	Ox (g/mi)		CO (g/mi)		
				FUELITP	E		CE	RT	STD	CER	г	STD	
HWFET @) 50K	*						,	*	*			
HWFET @	@ UL		GASOI	LINE-TIE	R3 E10		0.0	002	0.030				
20°F @	50K	COLD	CO E10 RE	EGULAR GA	ASOLINE	(TIER3)				2.5		12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS													
						US06			SC03	C	COMPOSITE			
	FUEL TYP	ΡE			OG+NOx (g/mi)	CO (g/mi)	-	PM M g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+N (g/mi)	-	CO /mi)	PM (mg/mi)
@ 4K	@4K *		CERT		* *				*	*				
•			STD		*	*			*	*				*
			CERT		*	*		1	*	*	0.014	C).6	*
@ UL	GASOLINE- TIER3 E10		SID		*	*		6	*	*	0.070	4	1.2	*
			BIN								0.050	50		
		WH	OLE VE	HICL	E EVAPO	ORATIVE E	MISSION	N STAND	OARDS AND O	CERTIFIC	ATION LEV	ELS		
						WHOLE	VEHICLE	EVAPO	RATIVE TES	ΓING				
	ORATIVE	IVE FUEL TYP		ΈE	3DH	S (g/test) (@ UL		2DHS (g/test) @ UL		RL (g/mi) @ UL		
					CERT	STD	FEL	CERT	r std	FEL	. CE	RT		STD
NGMXF	GASOLINE-		0.375	0.164	4 0.400	0.37	75 0.00		0.05					
NGMXF	R012637A	-	ASOLIN IER3 E		0.219	0.400	0.400	0.232	2 0.400	0.40	0 0.	. 00	C	0.05
NGMXF	R015740B	-	ASOLIN IER3 E		0.292	0.500	0.450	0.264	4 0.500	0.45	0 0.	. 00	c	0.05



ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
		FUEL ONLY EVAP & CANISTER BLEED											
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL FUEL TYPE CERT STD			FUEL TYPE		3DHS R (g/test	IG TEST) @ UL	2DHS RIG TEST (g/test) @ UL		BLEED CANISTE TEST (g/test) @ 4			
						CERT	STD	CERT	STD	CERT	STD		
NGMXR009537C	GASOLINE- TIER3 E10	0.02	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.004	0.020		
NGMXR012637A	GASOLINE- TIER3 E10			GASOLINE- TIER3 E10		*	*	*	*	0.004	0.020		
NGMXR015740B	GASOLINE- TIER3 E10	0.02	0.20	GASOLI TIER3		*	*	*	*	0.012	0.020		
E	EFFECTIVE	LEAK D	IAMET	ER STAI	NDARI	D AND CE	RTIFICA	FION LEV	'EL (INCH	IES)			
EVAPORATIVE	EVAPORATIVE FAMILY					Y CERT					STD		
NGMXR012637A NGMXR012637A			-LK1 *					0.02					
NGMXR009537C NGMXR009537C			-LK1 *					0.02					
NGMXR015740B NGMXR015740B				-lK1		*				0.02			

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<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

2022 MODEL YEAR: VEHICLE MODELS INFORMATION

MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
ENVISION AWD	LDT2	2.0	SA9	NGMXR012637A	1	F
ENVISION FWD	LDT2	2.0	SA9	NGMXR012637A	1	F
XT4 AWD	LDT2	2.0	SA9	NGMXR012637A	1	F
XT4 FWD	LDT2	2.0	SA9	NGMXR012637A	1	F
XT5 AWD	LDT3	2.0	SA9	NGMXR015740B	1	F
XT5 FWD	LDT3	2.0	SA9	NGMXR015740B	1	F
XT6 AWD	LDT3	2.0	SA9	NGMXR015740B	1	F
XT6 FWD	LDT3	2.0	SA9	NGMXR015740B	1	F
BLAZER AWD	LDT3	2.0	A9	NGMXR015740B	1	F
BLAZER FWD	LDT3	2.0	A9	NGMXR015740B	1	F
EQUINOX AWD	LDT2	2.0	A9	NGMXR009537C	1	F
EQUINOX FWD	LDT2	2.0	A9	NGMXR009537C	1	F
ACADIA AWD	LDT3	2.0	A9	NGMXR015740B	1	F
	ENVISION AWD ENVISION FWD XT4 AWD XT4 FWD XT5 AWD XT5 FWD XT6 AWD XT6 FWD BLAZER AWD BLAZER FWD EQUINOX AWD EQUINOX FWD	ENVISION AWDLDT2ENVISION FWDLDT2XT4 AWDLDT2XT4 FWDLDT2XT5 AWDLDT3XT5 FWDLDT3XT6 AWDLDT3BLAZER AWDLDT3BLAZER FWDLDT3EQUINOX AWDLDT2EQUINOX FWDLDT2	ENVISION AWDLDT22.0ENVISION FWDLDT22.0XT4 AWDLDT22.0XT4 FWDLDT22.0XT5 AWDLDT32.0XT5 FWDLDT32.0XT6 AWDLDT32.0BLAZER AWDLDT32.0BLAZER FWDLDT32.0EQUINOX AWDLDT22.0EQUINOX FWDLDT22.0	ENVISION AWDLDT22.0SA9ENVISION FWDLDT22.0SA9XT4 AWDLDT22.0SA9XT4 FWDLDT22.0SA9XT5 AWDLDT32.0SA9XT5 FWDLDT32.0SA9XT6 AWDLDT32.0SA9XT6 FWDLDT32.0SA9BLAZER AWDLDT32.0A9BLAZER FWDLDT32.0A9EQUINOX FWDLDT22.0A9	MODELVEH CLASSENGINE (L)TRANS TYPEFAMILYENVISION AWDLDT22.0SA9NGMXR012637AENVISION FWDLDT22.0SA9NGMXR012637AXT4 AWDLDT22.0SA9NGMXR012637AXT4 FWDLDT22.0SA9NGMXR012637AXT4 FWDLDT22.0SA9NGMXR012637AXT5 AWDLDT32.0SA9NGMXR012637AXT5 FWDLDT32.0SA9NGMXR015740BXT6 AWDLDT32.0SA9NGMXR015740BXT6 FWDLDT32.0SA9NGMXR015740BBLAZER AWDLDT32.0A9NGMXR015740BBLAZER FWDLDT32.0A9NGMXR015740BEQUINOX AWDLDT22.0A9NGMXR009537CEQUINOX FWDLDT22.0A9NGMXR009537C	MODELVEH CLASSENGINE (L)TRANS TYPEFAMILYECSENVISION AWDLDT22.0SA9NGMXR012637A1ENVISION FWDLDT22.0SA9NGMXR012637A1XT4 AWDLDT22.0SA9NGMXR012637A1XT4 FWDLDT22.0SA9NGMXR012637A1XT5 FWDLDT22.0SA9NGMXR012637A1XT5 FWDLDT32.0SA9NGMXR015740B1XT6 FWDLDT32.0SA9NGMXR015740B1XT6 FWDLDT32.0SA9NGMXR015740B1BLAZER AWDLDT32.0A9NGMXR015740B1EQUINOX AWDLDT22.0A9NGMXR009537C1EQUINOX FWDLDT22.0A9NGMXR009537C1



2022 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
GMC	ACADIA FWD	LDT3	2.0	A9	NGMXR015740B	1	F
GMC	TERRAIN AWD	LDT2	2.0	A9	NGMXR009537C	1	F
GMC	TERRAIN FWD	LDT2	2.0	A9	NGMXR009537C	1	F