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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.

					TEST GRO	UP IN	NFOR	MATION						
MODE		EST GROUP	T GROUP VEHICLE CLAS				E CLASS(ES) FUEL CATEGORY			T	FUEL TYPE			
2021	MV	VXJ02.0S30		LDT2	, LDT3, PC	:			SINGLE FUE	UEL GASOLINE				
1	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATE	GORY	INTERIM / II	NTE	RMEDIATE IN-USE STD			
EXH	/ORVR	EVAP			FTP		SF	TP	FTP		SFTP			
15	0000	150000)	LEV3	SULEV30	LEV	3 C	OMPOSITE	*		PM			
SPE	CIAL FE	ATURES & EX	HAU		ON CONTRO	L		OBD S	TATUS		ENGINE DISPLACEMENT (L)			
1	DFI	, TC, SC, C	AC, E	HO2S, WR-	HO2S, TWC			FULL	*					
*			*				P	ARTIAL	ALL MODELS		2.0			
*	Manarati Area Cara		*					TIAL WITH						
		E	VAPO	DRATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N				
EVA	P / ORV	R FAMILY	EVA	APORATIVE	STD CATE	GORY		EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
M	IVVXR01	42E50		LEV 3	OPTION2			LI	T3		*			
M	IVVXR01	42E51		LEV 3	LEV 3 OPTION2			I	PC .		*			
M	IVVXR01	42E52		LEV 3	OPTION2			LDT2			*			
					EMISSION CI	REDIT	INFO	ORMATION						
	EDIT FO	X FLEET AVE. OR EXTENDED RRANTY			NMOG CREDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS			
		N			N				N		N			
				NMOG	AND FLEET	AVE	RAGI	E INFORMA	TION					
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	нс	CHO/NMHC RATIO	PC+LDT (0-37			PC+LDT (0-3750 LVW) LDT (3751 LVW-8500 MDV (10		0 LVW) LDT (3751		DT (3751 LVW-8500		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)
*	*	1.10		*	0	.058			0.065		*			

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).

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 _____ day of June 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUS	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; NMC: 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

FUEL TYPE

		NMOG+NOx (g/mi)		x CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- LEV3 E10 PREM	0.0219	0.030	0.57	1.0	*	*	*	4	0.001	0.003
50°F @4K	GASOLINE- LEV3 E10 PREM	0.0150	0.060	0.52	1.0	*	*	*	8		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-LEV3 E10 PREM	0.0131	0.030			
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			1.19	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			US06			SC03	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG÷NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	CERT * *	*	*							
0		STD	*	*		*	*			
		CERT	*	*	2.5	*	*	0.020	0.84	*
@ UL	GASOLINE- LEV3 E10 PREM	STD	*	*	6	*	*	0.077	4.2	*
		BIN						0.080		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) @	D UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	0.005 0.05	STD
MVVXR0142E50	GASOLINE- LEV3 E10 PREM	0.2076	0.500	*	0.1808	0.500	*	0.005	0.05
MVVXR0142E51	GASOLINE- LEV3 E10 PREM	0.2057	0.300	*	0.2111	0.300	*	0.000	0.05
MVVXR0142E52	GASOLINE- LEV3 E10 PREM	0.2057	0.400	*	0.2111	0.400	*	0.000	0.05



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
		FUEL ONLY EVAP & CANISTER BLEED											
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL	FUEL TYPE		IG TEST) @ UL		RIG TEST st) @ UL	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYP	CERT	STD			CERT	STD	CERT	STD	CERT	STD		
MVVXR0142E50	GASOLINE TIER3 E1 PREM	1	0.20	GASOLINE- LEV3 E10 PREM		*	*	*	*	0.0116	0.020		
MVVXR0142E51	GASOLINE TIER3 E1 PREM	1	0.20	GASOLINE- LEV3 E10 PREM		*	*	*	*	0.0132	0.020		
MVVXR0142E52	GASOLINE TIER3 E1 PREM		0.20	LEV3	GASOLINE- LEV3 E10 PREM		*	*	*	0.0132	0.020		
	EFFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICA	TION LE	VEL (INCH	IES)			
EVAPORATIVE	EVAPORATIVE FAMILY LEAK FAMIL			LY	Y CERT				STD				
MVVXR0142E50 MVVXR0142E50			-001	-001 *				0.02					
MVVXR0142	E51	MVVXR0	142E51	-001 *					0.02				
MVVXR0142E52 MVVXR0142E52			-001		7	•		0.02					

*: 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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
VOLVO	S60 T6 AWD	PC	2.0	SA8	MVVXR0142E51	1	P
VOLVO	S90 T6 AWD	PC	2.0	SA8	MVVXR0142E51	1	P
VOLVO	V60 T6 AWD	PC	2.0	SA8	MVVXR0142E51	1	P
VOLVO	V90 T6 AWD	PC	2.0	SA8	MVVXR0142E51	1	P
VOLVO	V90CC T6 AWD	LDT2	2.0	SA8	MVVXR0142E52	1	P
VOLVO	XC60 T6 AWD	LDT2	2.0	SA8	MVVXR0142E52	1	P
VOLVO	XC90 T6 AWD	LDT3	2.0	SA8	MVVXR0142E50	1	P