

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: The following vehicles produced by the manufacturer are certified as plug-in hybrid electric vehicles pursuant to Title 13, California Code of Regulations (13 CCR) Sections 1961 or 1961.2, 1962.2, 1976, 1978 and the incorporated test procedures. Production vehicles shall be in all material respects the same as those for which certification is granted.

	TEST GROUP INFORMATION													
					TEST GR	OUP II	NFO	RMATION						
MODE		EST GROUP	ST GROUP VEHICLE CLASS(E				ES) FUEL CATEGORY				FUEL TYPE			
2020	2020 LVVXV02.0P3R PC				PLUG-IN HYBRID ELECTRIC VEHICLE				GASOLINE					
I	USEFUL	LIFE (miles)		VEH	ICLE EMIS	SION	ON CATEGORY INTERIM / INT			TE	ERMEDIATE IN-USE STD			
EXH	/ORVR	EVAP			FTP		SFTP			FTP			SFTP	
15	0000	150000		LEV3	ULEV70	LEV	3	COMPOSITE		*			*	
SPE	CIAL FE	ATURES & EXH SYS	IAUST			OL		OBD	ST	TATUS		EN	GINE DISPLACEMENT (L)	
1	DFI,	TC, SC, CAC	, 2но	2S, WR-	HO2S, TW	c		FULL		*]			
*			*					PARTIAL	TIAL ALL MODE				2.0	
*	*						PA	RTIAL WITH	1	*				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EVA	P / ORV	R FAMILY	EVAP	ORATIVE	E STD CATI	EGORY	GORY EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES			
L	VVXR01	42EP2		LEV 3	OPTION2				PC			*		
					EMISSION	CREDI		FORMATION	1					
GROUP AVE. CRE				E. CRED	E. CREDIT FOR NON-P			EDIT FOR V ZERO- AP				OPTIONAL EXH. STD FOR WORK TRUCKS		
* N						1	N	T	N			N		
				NMOG	AND FLEE		RA	GE INFORM	AT	ΓΙΟΝ				
NMOG RAF	MOG CH4 NMOG/NMHC HCHO/NMHC PC+LD			NMOG+N PC+LDT			W) LD	Г (HOX FLEET ST (3751 LVW-8500 R) + MDPV (g/m)			MDV (10,001-14,000		
*	*	1.10		*		0.065			0.074 *			*		
and the state of the state of the Energies Displacement Emission Control Systems Phase														

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 _____ day of June 2020.

Allen Loons, Chief Emissions Certification and Compliance Division



VOLVO CAR CORPORATION

	A'	TT	A	C	HI	M	E	NT	Г
--	----	----	---	---	----	---	---	----	---

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

FUEL TYPE

			-															
				NMOG	+NOx			со			NOx			НСН	0		P	M
				(g/n	ni)		((g/mi)		1	(g/mi)		(1	mg/r	ni)		(g/ı	mi)
				CERT	STE		CERT	r st	D	CERT	S	TD	CERT		STD	CE	RT	STD
FTP@5	ок	*		*	*		*	*		*		*	*		*		*	*
FTP@L		OLIN 73 E1		.0416	0.07	70	0.36	5 1.	7	*		*	*	* 4		0.0	004	0.01
50°F @		OLIN 73 E1	- 10	.0319	0.14	0	0.31	. 1.	7	*		*	*		16			
				F	UEL 1	YPE					NMOG	NO	x (g/mi)			CO	(g/mi)	
										0	CERT		STD	-	CEF	T		STD
HWFE	T @ 50K				*						*		*					1
HWFE	T @ UL			GASOI	INE-1	LEV3	E10			0	.0140		0.070					
20°F	@ 50K		GAS	OLINE-C	OLD (CO LO	OW OC	TANE							0.7	9		10.0
			SF	TP EXH	AUST	EMIS	SION	STAND	ARDS	AND	CERTI	ICA	TION LE	VEL	.S			
						US	506				SC	03			C	OMPO	SITE	
	FUEL T	YPE		NMOG (g/n		1	CO g/mi)	1	M /mi)	1	DG+NO g/mi)	x	CO (g/mi)	NMOG+N (g/mi)		OG+NOx (g/mi) (g		PM (mg/mi)
			CERT	*			*				*		*					
@ 4K	*		STD	*		-	*				*	-	*					
			CERT	*		+	*		*		*	+	*	0	0.0314 0		.34	*
	GASOLI	NE-		*		+	*		*		*	+	*			4.2	*	
@ UL	LEV3 I	E10	STD	~			*		*		~				0.083		4.2	
			BIN		_									-	0.090			
		WH	OLE VE	HICLEE	VAPC								ERTIFICA	TIO	N LEVE	LS		
						WHC	OLE V	EHICLE	EVAP	ORA	FIVE TE	STI	NG					
		F	UEL TY	PE	3DHS	S (g/te	est) @	UL		2DH	IS (g/te	st)	@ UL			RL (g/mi) @ UL		
				CI	RT	ST	D	FEL	CE	RT	STE)	FEL		CE	RT		STD
	GASOLINE- LVVXR0142EP2 LEV3 E10 PREM		10 0.1	1972	0.3		*		1385 0		-	*		0.000		0.05		
C	DRVR / F	JEL C	ONLY / C	CANISTE	RBL	ED E	EVAPO	ORATIVE	EEMIS	SSION	STAN	DAF	RDS AND	CEF	RTIFICA	TION	LEVE	LS
													& CANIS	_				
			ORVR (g/gallon)	@ UL	-	FUE	L TYPE		HS RIG TEST g/test) @ UL		г	2DHS RIG 1 (g/test) @					ANISTER st) @ 4K
		FU	EL TYP	E CER	r S1	D			CE	RT	STD				STD	CERT		STD
LVVXF	R0142EP2		SOLINE ER3 E1 PREM	-	9 0.	20		*		*	*		*		*	*		*

\sim								
A	CA	A L I	F	0	R	N	Concernant of	A
A	AIR	RES	ΟU	RCE	S	BO	A	RD

Executive Order: A-018-0221 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4

EFFECTIV	E LEAK DIAMETER STA	NDARD AND CERTIFICATION I	LEVEL (INCHES)									
EVAPORATIVE FAMILY	FAMILY LEAK FAMILY CERT STD											
LVVXR0142EP2	7XR0142EP2 LVVXR0142EP2-001 * 0.02											
LDT<6000#GVWR,3751-575 8500#ALVW; MDV: medium- duty passenger vehicle; HDV emission limit; GVWR: gross ULEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; F SCRC/SCR-N or SCRC-NH3 continuous/periodic trap oxidi heated/oxygen sensor; WR-F RDQS: reductant quality sens EGRC: EGR cooler; AIR/AIR fuel injection; DFI/IFI: direct/in full/partial/partial with fines or prefix 2: parallel; (2) suffix: set device (ex. DPF-SCRC: SCR ethanol ("15%"gasoline) fuel; -automated manual transmiss	0#LVW; LDT3: LDT 6001-850 duty vehicle; MDV4: MDV 850 : heavy-duty vehicle; ECS: en vehicle weight rating; LVW: lo ber ULEV; ZEV: zero-emission AC: HC adsorbing catalyst; W : selective catalytic reduction- izer; DPF: diesel particulate fil lO2S or AFS: wide range/linea sor; NH3S: ammonia sensor; B E: secondary air injection (belt ndirect fuel injection; TC/SC: to n-board diagnostic; DOR: direct ries; a hyphen (-) between aft coated DPF); CNG/LNG: com E10: "10%" ethanol ("90%"ga continuously variable transmis ion; AMS: automated manual- V: plug-in hybrid electric vehicl	ssion; SCV: selectable continuously v selectable transmission; OT: other tra	LDT 6001-8500#GVWR,5751- 1-14000#GVWR; MDPV: medium- ation; STD: standard; FEL: family LVW; LEV: low emission vehicle; C/OC: 3-way/oxidizing catalyst; corption catalyst; SCR-U or kidation catalyst; CTOX/PTOX: gnited engine; HO2S/O2S: : NOx sensor; PMS: PM sensor; .P EGR: High/Low Pressure EGR; ed AIR; SFI/MFI: sequential/multiport cooler; FFH: fuel fired heater; F/P/\$: trap; BCAN: bleed carbon canister; functionalities of the after treatment liquefied petroleum gas; E85: "85%" o); M: manual transmission; SA: semi variable transmission; AM:									

Y = credits, S = credits for some/select models

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MODEL NUMBER	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
1	VOLVO	POLESTAR 1	PC	2.0	SA8	LVVXR0142EP2	1	P

ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION

MODEL PHEV TYPE				US06 AER	HIGHW	ZEV	
NUMBER	PHEVITTE	(MILES)	(MILES)	(MILES)	AER	EAER	ALLOWANCE
1	*	71.56	72.3	*	77.0	77.7	0.00