

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 GROUP INFORMATION														
MOE YE		TES	T GROUP		VEHIC	CLE CLASS(E	S)		FUEL C	FUEL CATEGORY FUEL TYPE					
2021 MVGAV02.9N7S						PC		HYBRID ELECTRIC VEHICLE					GASOLINE		
USEFUL LIFE (miles)					VE	HICLE EMISS	ION (CATE	TEGORY INTERIM / INTERMEDIATE IN-U						
EXH/ORVR EVAP						FTP		SF	TP	FTP		SFTP			
:	50000		150000)	LEVS	3 ULEV70	LEV	3 C	3 COMPOSITE PM				PM		
SPECIAL FEATURES & EXHAUST EMISSION C SYSTEMS						ON CONTRO	L		OBD S	OBD STATUS		ENGINE DISPLACEMENT			
1	1 2WU-TWC, 2TWC, 2WR-HO2S, 2HO2S, DFI, 2 CAC						2,		FULL	*					
*	*							F	PARTIAL	AL ALL MODELS		2.9			
*	* *							PAF	TIAL WITH	'ITH *					
			E١	/APC	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATIO	N	1			
EV	AP / OF	RVR F	FAMILY	EVA	PORATIVI	E STD CATEG	ORY			VAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	MVGAR	0150	NCS	L	EV 3 OPT:	ION2 WITH F	TEL	PC				*			
					I	EMISSION CR	REDIT	INFO	ORMATION						
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY						EDIT FOR NO				R		OPTIONAL EXH. STD FOR WORK TRUCKS			
N N								N N							
					NMOG	AND FLEET	AVE	RAGE	INFORMA1	TION					
RAF	G CH4 FTP RAF NMOG/NMHC RATIO HCHO/NMHC RATIO (0-37 (g/mi)				-3750		V) LDT (OG+NOX FLEET STD IDV (10,001-14,000 GVWR) (g/mi)				
*								*							

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.)



VOLKSWAGEN GROUP OF AMERICA, INC.

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 at El Monte, California on this

^{*}____ day of May 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division



FUEL TYPE

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0187 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

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)	1	:O mi)		Ox ′mi)		HO /mi)		M mi)		
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD		
FTP@50K		*	*	*	*	*	*	*	*	*	*	*		
FTP@UL	GASOLINE- L TIER3 E10 PREM		0.0477	0.070	0.21	1.7	*	*	*	4	0.0010	0.003		
50°F @4K	TIE	OLINE- R3 E10 PREM	0.0526	0.140	0.21	1.7	*	*	0.9	16				
	FUEL TYPE						NN	NMOG+NOx (g/mi)				CO (g/mi)		
			1	OEL ITP	E		CEI	RT	STD	CER		STD		
HWFET @ 50K				*			*		*					
HWFET @ UL			GASOLINI	-TIER3 1	E10 PREM	[0.01	163	0.070					
20°F @ 50K			GASOLINI	-TIER3 1	E10 PREM	I				0.54		10.0		
			CETD EVU							1				

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			SFI	P EXHA	UST E	MISSIO	N STAND	ARDS	AND	CERTIFIC	ATION LE	VELS				
						US06				SC03		C	OMPOS	TE		
	FUEL TY			NMOG+NOx (g/mi)		CO (g/mi)		PM (mg/mi)		OG+NOx	CO	NMOG+N		-	PM	
				(g/m	''	(g/m)	(ing	/////	1	(g/mi)	(g/mi)	(g/mi)	(g/r	ni)	(mg/mi)	
@ 4K	94K *		CERT			*				*	*					
			STD	*		*				*	*					
			CERT	*		*	* 4.		*		*	0.0384	0.:	34	*	
@ UL	GASOLIN TIER3 E PREM		STD		*		* 6			*	*	0.077	4.	2	*	
			BIN									0.090				
		WHO	DLE VEH	ICLE E	APOF	RATIVE	MISSION	STAN	DAR	DS AND C	ERTIFICA	TION LEVI	ELS			
					WHOLE VEHICLE EVAPORATIVE TESTING											
	ORATIVE	FUEL TYPE				(g/test) @ UL			2Dł	IS (g/test)	@ UL		RL (g/mi) @ l		JL	
						STD	FEL	CER	Т	STD	FEL	CE	RT	STD		
MVGAR	0150NCS		SOLINE ER3 E1	10 2	209	0.300	0.300	0.15	5	0.300	0.300	0.0	0.000		.05	
C	DRVR / FUI	EL O	NLY/CA	NISTER	RBLE	ED EVAP	ORATIVE	EMISS	SION	STANDA	RDS AND	CERTIFICA	ATION LE	VE	S	
								FU	EL C	NLY EVA	P & CANIS	TER BLEE	D			
	ORATIVE	C	ORVR (g/gallon) @		@ UL	FUE	L TYPE			IG TEST		IG TEST) @ UL			CANISTER /test) @ 4K	
		FUE	L TYPE	CERT	STE)			RT	STD	CERT	STD	CERT		STD	
MVGAR	0150NCS		OLINE- R3 E10	0.039	0.2		OLINE- R3 E10	*		*	*	*	0.016		0.020	

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			9								
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)											
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD								
MVGAR0150NCS MVGAR0150NCS-001 * 0.0											
8500#ALVW; MDV: medium-c duty passenger vehicle: HDV:	luty vehicle; MDV4: MDV 850 heavy-duty vehicle: ECS: en	car; LDT: light-duty truck; LDT1: LD7 0#GVWR,3751-5750#ALVW; LDT4: 1-10000#GVWR; MDV5: MDV 1000 hission control system; CERT: certific aded vehicle weight; ALVW: adjusted	1-14000#GVWR; MDPV: medium-								

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
AUDI	S6	PC	2.9	SA8	MVGAR0150NCS	1	P
AUDI	S7	PC	2.9	SA8	MVGAR0150NCS	1	P