

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0170

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: 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.

2020 LVGAJ02.0A3P LDT2 PLUG-IN HYBRID ELECTRIC VEHICLE  USEFUL LIFE (miles) VEHICLE EMISSION CATEGORY INTERIM / INTERMEDIA  EXH/ORVR EVAP FTP SFTP FTP  150000 150000 LEV3 SULEV30 LEV 3 COMPOSITE PM	FUEL TYPE  GASOLINE  IATE IN-USE STD  SFTP  PM  IE DISPLACEMENT (L)		
USEFUL LIFE (miles)  EXH/ORVR  EXH/ORVR  EVAP  SPECIAL FEATURES & EXHAUST EMISSION CONTROL  SYSTEMS  LDT2  ELECTRIC VEHICLE  ORDER OF STREET S	IATE IN-USE STD SFTP PM IE DISPLACEMENT		
EXH/ORVR EVAP FTP SFTP FTP  150000 150000 LEV3 SULEV30 LEV 3 COMPOSITE PM  SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS  1 WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC, AIR  FULL *	SFTP PM IE DISPLACEMENT		
150000 150000 LEV3 SULEV30 LEV 3 COMPOSITE PM  SPECIAL FEATURES & EXHAUST EMISSION CONTROL OBD STATUS  1 WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC, AIR  * FULL *	PM NE DISPLACEMENT		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS  OBD STATUS  WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC, AIR  FULL *	IE DISPLACEMENT		
SYSTEMS  OBDITATUS  WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC, AIR  FULL *			
T AIR FOLL *			
* * PARTIAL ALL MODELS			
	2.0		
* PARTIAL WITH * FINES			
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECI	SPECIAL FEATURES		
LVGAR0145ACW LEV 3 OPTION2 WITH FEL LDT2	*		
EMISSION CREDIT INFORMATION			
AVE (REDITEDE   NON-DVEV / PRO-	OPTIONAL EXH. STD FOR WORK TRUCKS		
ALL MODELS N N N	N		
NMOG AND FLEET AVERAGE INFORMATION			
	MDV (10,001-14,000		
* * 1.10 0.03 0.065 0.074	*		

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 at El Monte, California on this 1374

\_ day of December 2019.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 



GASOLINE-TIER3 E10

0.010

0.20

LVGAR0145ACW

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# **ATTACHMENT**

	EXHA	UST	AND	EV.	APOR	ATIVE	EMIS	SION	STAN	IDAR	RDS AND	CERT	FIC	ATION	LEVELS	5	
		EXH									LEVELS		-		10.7 1 1		
	FUE	FUEL TYPE			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												
				NI	VIOG+N (g/mi)	Ох		CO (g/mi)			NOx g/mi)	1	HCH(			M mi)	
				CER	RT	STD	CERT	r STI	5	CERT	STD	CER	T	STD	CERT	STD	
FTP@5	@50K *			*		*	*	*	and all	*	*	*	*	*	*	*	
FTP@L	FTP@UL GASOI		of the same of	0.02	54 0	.030	0.16	1.0	0	*	*	0.3		4	0.0008	0.003	
50°F @	4K	*		*		*	*	*	uen e	*	*	*		*			
					FUI	EL TYP	=			DEG.	NMOG+NO	Ox (g/mi)			CO (g/mi	)	
								remain as esta	inderes	С	CERT STD			CERT S		STD	
HWFE	「@ 50K	Face :	AT PEL	ein Turkst <b>x</b> see					****		*	*					
HWFE	T@UL			GASOLINE-TIER3 E10					0.0117		0.030						
20°F	@ 50K	i,		GASOLINE-TIER3 E10										0.66 12.5		12.5	
7 × 72		7.885		FTP	EXHAL	IST EM	ISSION	STANDA	ARDS	AND	CERTIFIC	ATION LE	VEL	S			
FUEL T				and the second s				JS06			SC03			COMPOSITE			
				/IOG+NOx (g/mi)		CO (g/mi)			NMOG+NOx (g/mi)		CO (g/mi)	NMOG+NOx (g/mi)		CO (g/mi)	PM (mg/mi)		
@ 4K	*	* CE		RT *					St. 4.17	*	*						
W 11.					85 1 <b>4</b> 89	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*			图图 0	*	* * e M					
27.2.19	<del>20 2 2 1 1 2 2</del>	ASOLINE-			*	程/	*	0.	8	1	*	*	0	.0183	0.14	*	
@ UL				S. C.	*		*		5		*	*	0	.083	4.2	*	
			BIN										0	.050			
		WH	OLE V	EHIC	LE EV	APORA	TIVE E	MISSION	STAN	NDAR	DS AND C	ERTIFIC	ATIO	N LEVEL	.s		
						W	IOLE V	EHICLE	EVAP	ORAT	IVE TEST	ING					
EVAPORATIVE FAMILY		FUEL TYPE		PE 3DHS (g/test) @ UL				2DHS (g/test) @ UL				RL (g/mi) @ UL					
				CER	ERT STD		FEL	CERT		STD	FEL		CERT		'STD		
LVGAR0145ACW		7 1		OLINE- 0.258 0.			400	0.400 0.246		46	0.400	0.400		0.00 0.		0.05	
C	RVR / F	JEL (	ONLY	CAN	IISTER	BLEED	EVAP	ORATIVE	EMIS	SSION	STANDA	RDS AND	CEF	RTIFICAT	ION LEV	ELS	
									FI	JEL O	NLY EVA	P & CANI	STEF	BLEED	)		
	ORATIVE MILY	E ORVR (g/gallon) @ U			) UL	FUEL TYPE (			HS RIG TEST g/test) @ UL						CANISTER /test) @ 4K		
		FUEL TYPE C		CERT	STD				RT	STD	CERT	T	STD	CERT	STD		



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)								
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD					
LVGAR0145ACW	LVGAR0145ACW-001	A DESCRICT CHAPTER AND A LETTER SE	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

### 2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MODEL NUMBER	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	
1	AUDI	Q5 55 TFSIE	LDT2	2.0	AMS7	LVGAR0145ACW	1	P	

## **ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION**

MODEL		UDDS AER (MILES)	UDDS EAER	US06 AER	HIGHW	ZEV	
NUMBER	PHEV TYPE		(MILES)	(MILES)	AER	EAER	ALLOWANCE
1	TZEV	31.2	31.1	*	33.8	32.8	0.61