

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-14-012;

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 GRC	UP II	NFOR	MATION					
MODE YEAF	_	EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2018	2018 JVGAJ02.0AAC			LDT2	LDT2, LDT3, PC			DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	. LIFE (miles)		VEH	VEHICLE EMISSION CATEGORY			GORY	INTERIM / IN	TER	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP S			SFTP FTP			SFTP			
150000 150000				LEV3	LEV3 ULEV125 LEV 3 C		3 CC	OMPOSITE	PM		PM		
SPE	CIAL FE	ATURES & EX			ON CONTRO	L		OBD S	TATUS	E	NGINE DISPLACEMENT (L)		
1	T	WC, WR-HO2S	, но2	2S, DFI,	TC, CAC			FULL	*				
*	*							ARTIAL	ALL MODELS	102966	2.0		
*			*					TIAL WITH	*	•			
		E	VAPO	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N			
EVA	P / ORV	RFAMILY	EVA	PORATIVE	E STD CATE	GOR	(		SSION STD E CLASS	1	SPECIAL FEATURES		
J	VGAR01	40AAP		, L	EV 2		PC				*		
J	VGAR01	40ACN	L	EV 3 OPTI	ION2 WITH	FEL LDT2			)T2	*			
J	VGAR01	40ACP	L	EV 3 OPTI	CON2 WITH	ON2 WITH FEL			2C		*		
J	VGAR01	55AAM		L	LEV 2			LDT3			*		
				I	EMISSION CI	REDI		RMATION					
	EDIT FC	X FLEET AVE. PR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP	NMOG CREDIT FOR D			REDIT FOR DO	OPTIONAL EXH. STD FOR WORK TRUCKS			
		N			N		N			N			
				NMOG	AND FLEET	AVE	RAG	E INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO	NMOG/NMHC HCHO/NMHC PC+LDT (0-37			0-375	0 LVW) LDT (375		+NOX FLEET S (3751 LVW-850) R) + MDPV (g/m		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		0.03	0	.079		0.092			*		

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.

This Executive Order hereby supersedes Executive Order A-413-0093-1 dated August 18, 2017.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this <u>2914</u> day of May 2019.

Allen Lyons, Chief Emissions Compliance, Automotive Regulations and Science Division



FUEL TYPE

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0093-2 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

	199		-												
		,		NMOG+NOx (g/mi)		~	CO (g/mi)			NOx (g/mi)		HCHO (mg/mi			
1				CER	r st	D CEF	RT ST	D	CERT	STD	CER	т	STD	CERT	STD
FTP@5	0K	*		*	*	*	*		*	*	*		*	*	*
FTP@L		ASOLIN IER3 E PREM	10	0.075	0.1	25 0.9	92 2.	1	*	*	*		4 0.0000		0.003
50°F @	GASOLINE- 0°F@4K TIER3 E10 PREM		510	0.032	6 0.2	50 0.2	26 2.	1	*	*	*	16		alta anna Seanna anna	
A second second		1			FUEL	TVDE			N	MOG+NC	Dx (g/mi)			CO (g/m	i)
					FUEL	IYPE			CE	ERT	STD		CERT	r	STD
HWFE	T @ 50	ĸ			*					*	*				497 - 18 <sup>96</sup>
HWFE	T @ UI	-		GASOL	INE-TIE	R3 E10 E	PREM		0.0	0572	0.125	5	n an an an Na Thành a		neo Staty II
20°F	@ 50K			GASOLINE-TIER3		R3 E10 E	10 PREM		in and in The second	and the second sec		0.5		5 10.0	
			5	SFTP E	XHAUST	EMISSIO	N STAND	ARDS	AND C	ERTIFIC	ATION L	EVEL	S		
a startery			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			US06			SC03				COMPOSITE		
	FUEL		TYPE		NMOG+NOx (g/mi)		CO PM (g/mi) (mg/mi)		NMOG+NOx (g/mi)		CO (g/mi)		OG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K		* CEF		г	*	*	*		*		*				
e					*	*			5	*	*	AND COLORING	neg land	n de la surri L'han bezañte	
		ASOLINE- IER3 E10 STI PREM BIN		г	*	*	* 4.0 * 10		*		*	0.0717		1.07	*
@ UL	TIER:				*	*				*	*		0.097	4.2	*
				Die Steel	kan Addisid	Contra Line additional from any some		n adala	listra - analia		B. Addited		0.110	charles in the	
		WF	IOLE \	/EHICL	E EVAPO	ORATIVE	EMISSION	N STA	NDARD	S AND C	ERTIFIC	ATIO	N LEVEL	S	
						WHOLE	VEHICLE	EVAF	ORATI	VE TEST	ING				-
				3DH	3DHS (g/test) @ UL				2DHS (g/test) @ UL					_ (g/mi) @ UL	
					CERT	STD	FEL	CE	RT	STD	FEL		CER	г	STD
JVGAR	0140A		ASOLI A PHA		0.439	0.50	*	0.4	155	0.65	*	0.002		2	0.05
JVGAR	0140A	CN	GASOLI TIER3		0.3270	0.400	0.375	0.2	900	0.400	0.37	75	0.001 0.		0.05
JVGAR	0140A		ASOLI IER3 PRE	E10	0.2710	0.300	0.300	0.2	600	0.300	0.30	00	0.00	1	0.05
JVGAR	0155A	AM	ASOLI TIER UNLEA	2	0.725	0.90	*	0.3	354	1.15	*		0.00	0.001 0.0	

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ORVR / FUI	EL ONLY / CA	NISTER	BLEED	EVAPOF	RATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS	
		FUEL ONLY EVAP & CANISTER BLEED										
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE			IG TEST ) @ UL		IG TEST :) @ UL	BLEED CANISTER TEST (g/test) @ 4		
	FUEL TYPE	CERT	CERT STD				STD	CERT	STD	CERT	STD	
JVGAR0140AAP	GASOLINE - TIER 2 UNLEADED	0.014	0.20	*		*	*	*	*	*	*	
JVGAR0140ACN	GASOLINE- TIER3 E10	0.019	0.20	GASOLINE- TIER3 E10		*	*	*	*	0.016	0.020	
JVGAR0140ACP	GASOLINE- TIER3 E10 PREM	0.102	0.20	GASOLINE- TIER3 E10 PREM		*	*	*	*	0.008	0.020	
JVGAR0155AAM	GASOLINE - TIER 2 0.066 0.20 UNLEADED		*		*	*	*	*	*	*		
	FFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICA	TION LEV	EL (INCH	IES)		
EVAPORATIVE FAMILY LEAK FAM			K FAMIL	Y CERT					STD			
JVGAR0140ACP		JVGARO	-001	* 0.02					0.02			
JVGAR0140	ACN	JVGAR0140ACN-001				,	ŧ		0.02			

VOLKSWAGEN GROUP

OF AMERICA, INC.

CALIFORNIA

AIR RESOURCES BOARD

\*: 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; 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; 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

2018 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD					
AUDI	A4 QUATTRO	PC	2.0	м6	JVGAR0140ACP	1	P					
AUDI	A4 ULTRA	PC	2.0	AMS7	JVGAR0140AAP	1	P					
AUDI	A5 QUATTRO	PC	2.0	M6	JVGAR0140ACP	1	P					
AUDI	Q5	LDT2	2.0	AMS7	JVGAR0140ACN	1	P					
AUDI	Q7	LDT3	2.0	SA8	JVGAR0155AAM	1	P					