

VOLKSWAGEN GROUP OF AMERICA, INC.

Executive Order: A-413-0143-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

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 GR	OUP IN	FOR	MATION			- CHEROLE NEWS AND THE SEC.		
MODE		EST GROUP	VEHIC	LE CLASS(ES)			FUEL C	ATEGORY	A 127	FUEL TYPE		
2020) LV	GAV05.2NBE	echosia hisbi in egaspi fagn	PC				SINGLE FUEL HICLE		GASOLINE		
f _e s	USEFUL	LIFE (miles)	VEH	IICLE EMIS	ATEC	ORY	INTERIM / IN	RMEDIATE IN-USE STD				
EXH	I/ORVR	EVAP	a Pi	FIPA Grand 337 a			P	FTP		SETP 1981		
15	150000 150000		LEV3	LEV160	60 LEV 3 COM		MPOSITE	OSITE PM		yr Mary PM		
SPE	CIAL FE	ATURES & EXI	AUST EMISSIC	ON CONTRO	OL		OBD S	TATUS	SCHOOL STATE	ENGINE DISPLACEMENT (L)		
1 2	WU-TWC	, 2TWC, 2WR-	HO2S, 2HO2S,	DFI+SFI,	AIR	<0x15	FULL	r joh x regytiv	SHEGH S	ser a crista de castado a co		
*			*	, 14 July		ic P	ARTIAL	ALL MODELS	SHE COLOR	5.2		
*			*		7		TIAL WITH	*				
		EV	APORATIVE &	REFUELING	G (EVA	P/QR	VR) FAMILY	INFORMATION	l			
EVA	AP / ORV	R FAMILY	E STD CATE	GORY	EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES			
3	LVGAR01	.55NAL	L	EV 2			PC			*		
				EMISSION C	REDIT	INFC	RMATION					
	OG+NO REDIT FO WAF	EDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS				
		N		N	и					N		
			NMOG	AND FLEE	TAVE	RAGE	INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	PC+1 DT (0-3750) LDT	MOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	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:

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于2012年11月21日 2013年

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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).

MODERATION ALOND THE

This Executive Order hereby supersedes Executive Order A-413-0143 dated May 24, 2019.

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 4 man day of August 2019.

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Allen Lyons, Chief

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Emissions Certification and Compliance Division

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Jostún Austrialist kold-eithe Wedde, Evendates fidher Brenke Brenker art. Emission Dartol System, Prist In Jeannais, OWD Demplother Eintsean Standarts des Centinesion Lemas, and Austrialists, per garliestes beer voor reiddes (HDV) opn 12 UO grounden CVIV-1 Researche Bedding von Excelling von 1964 opnie 13 CE. bet verdeeligen 17 DCR Sedion 1961 2 applicable to VID. In bedenning 13 CCR Section 1964 opnie 13 CE.



PREM

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

		EXH	AUS	T EMISSI	ON STA	NDARDS A	ND CER	TIFICATI	ON L	EVELS (FTP, HW	FET.	50°F, 20	°F)		
	F	FUEL TYPE		CH4: me monoxid adjustme ORVR [g	ethane; Ne; NOx: ent facto g HC/gall	IMOG: non- oxides of nit r; 2DHS/3DI lon dispense egrees Fahr	CH4 org trogen; H HS [g HC ed]: on-b	anic gas; ICHO: for C/test]: 2/3 oard refue	HC: h malde days eling v	nydrocark ehyde; Pl diurnal+ apor rec	oon; NMH M: particu hot-soak overy; g:	IC: no late n ; RL [gram	n-CH4 H natter; R g HC/mi] mg: mil	IC; CC AF: re : runn ligram	activ	ty ss;
						NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)		HCH (mg/n			TN - 10
				CERT	ST	D CERT	r ST	D CE	RT	STD	CER	Т	STD	CEF	RT	STD
FTP@5	ж	- 167 *		145.	*	jet fytj * r	JS 7 *		*	*	*		*			* * * * * * * * * * * * * * * * * * * *
FTP@U		ASOLIN PREM	E10	0.086	0.1	60 0.67	4.	2	* .	****	0.7		4		10	0.003
50°F @4	100	ASOLIN PREM	E10	0.1154	0.3	20 0.37	4.	2	*	*	2.4		30			
				- 1111	ELIEL	TVDE			NN	IOG+NC	x (g/mi)	ė.		CO (g	/mi)	
			1.4		FUEL TYPE					CERT STD			CERT		3. F.2"	STD
HWFET	@ 50	OK			*				*		1					
HWFE	T @ U	JL		GASOLI	NE-TIE	R3 E10 PE	REM	t Markt gar	0.0466 0.160							
20°F	@ 50k	(2	al la	GASOLI	GASOLINE-TIER3 E10 PREM								2.02		10.0	
erin ve				SFTP E	KHAUST	EMISSION	STAND	ARDS A	ND CI	ERTIFIC	ATION L	EVEL	S			i de parte
140 AC	, = <u>.</u>	1 - 12.5	. 4		2 1.3HQ	US06		$\gamma_j = \gamma_j \theta_j = 0$	19 m	SC03		- , · · · · ·		MPOS	SITE	v 504
	FUE	L TYPE	YPE		NMOG+NOx (g/mi)		PM (mg/mi)		NMOG+NOx (g/mi)		CO (g/mi)	The state of the	NMOG+NOx (g/mi)		:O /mi)	PM (mg/mi
@ 4K	4K *		* CERT		*	*	*		* * * * * * * * * * * * * * * * * * * *		*	*				
@ 4K		s		D	*	****			÷Α,		*					
		CE		रा	T *		3	.0	*		*		0.0685		. 57	*
@ UL	TIE	DLINE- R3 E10 REM	ST	D	*	* -		6	- ,		* 0.083		.083 4.2		*	
	_	BII		N								0				
		W	HOLE	VEHICL	E EVAP	ORATIVE E	MISSION	NSTAND	ARD	S AND C	ERTIFIC	ATIO	N LEVE	LS		
				-		WHOLE V	/EHICLE	EVAPO	RATI	/E TEST	ING					Name of the last o
EVAP(ORAT		FUEL	TYPE	3DHS (g/test) () UL		2DHS (g/test		t) @ UL		R	L (g/m	ıi) @	UL
					CERT	STD	FEL	CERT	RT STD		FEL		CERT		STD	
LVGAR	LVGAR0155NAL TIEF		TIER	LINE- 3 E10	0.491	0.50	*	0.354			*		0.000		0.05	



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				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		IG TEST	-A 7/6266471315767	IG TEST) @ UL	BLEED CANISTE TEST (g/test) @			
and the second of the second	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	"STD "		
LVGAR0155NAL	GASOLINE- TIER3 E10 PREM	TIER3 E10 0.011 0.20 PREM		on on the second of the second	aya Hasa H	ucarregge 10 - Aced 61.411.15 1		748/40 L	*	*		
	EFFECTIVE	LEAK D	IAMET	ER STANDAR	D AND C	ERTIFICA	TION LEV	EL (INC	HES)			
EVAPORATIVE	FAMILY	LEA	K FAMIL	_Y	CE	RT	with page 4.4		STD			
*		9 1	*	3477		*	Altrid Mi	21	*	49/4		

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; 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: sem -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

of the state of th	1				EVAPORATIVE	EVH	- 23
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	FAMILY	EXH ECS	OBI
AUDI	R8	PC	5.2	AMS7	LVGAR0155NAL	1	P
AUDI	R8 SPYDER	PC	5.2	AMS7	LVGAR0155NAL	1 (211)	P