

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0152-1 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.

WITICIT	Jer (incation i	3 gru										
				TEST GRO	UP IN	FORM	ATION					
TES	ST GROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
LVG	AT02.0VAA]	LDT2 DEDICATED SINGLE FUEL G					GASOLINE			
PEEUL I	IEE (miles)		VEHIC	CLE EMISS	ION C	ATEG	ORY	INTERIM / IN	TER	MEDIATE IN-USE STD		
			<u> </u>				277	FTP		SFTP		
			LEV3 U	LEV125	LEV	3 CON	POSITE	PM		PM		
	TURES & EX	HAU	IST EMISSION	N CONTRO)L		OBD S	TATUS	E	NGINE DISPLACEMENT (L)		
				I, TC, C	AC		ULL	*	ALTERNATION OF THE PERSON OF T			
						P/	RTIAL	ALL MODELS		2.0		
*												
	F	VAP	ORATIVE & F	REFUELING	G (EVA	P/OR	/R) FAMIL	Y INFORMATIO	N			
P / ORVI							EVAP EMI	ISSION STD		SPECIAL FEATURES		
CAPO1	35705		LEV 3 OPTI	TION2 WITH FEL			LDT2			*		
VGAROI	33703					T INFO	RMATION					
EDIT FO	R EXTENDE	i. O	NMOG CR	EDIT FOR	NON-F	251			OPTIONAL EXH. ST FOR WORK TRUCK			
VVAI	N			N			N					
			NMOG	AND FLE	T AV	ERAGI						
CH4 RAF	FTP NMOG/NMH RATIO	ic H	CHO/NMHC RATIO	PC+LDT (0-3750			0 LVW) LDT (3751 LVW-85		00	NMOG+NOX FLEET ST MDV (10,001-14,000 GVWR) (g/mi)		
*	1.10		0.03		0.06	5		0.074		*		
	TES LVG. SEFUL I DRVR 000 IAL FEA WU-TWC	TEST GROUP LVGAT02.0VAA SEFUL LIFE (miles) DRVR EVAP 000 150000 IAL FEATURES & EX SYS WU-TWC, TWC, WR-1 PARTICLE AVE EDIT FOR EXTENDED WARRANTY N CH4 RAF RAFIO	TEST GROUP LVGAT02.0VAA SEFUL LIFE (miles) DRVR EVAP 000 150000 IAL FEATURES & EXHAU SYSTEM WU-TWC, TWC, WR-H02S EVAP 2 / ORVR FAMILY EV VGAR0135VCS DG+NOX FLEET AVE. EDIT FOR EXTENDED WARRANTY N CH4 RAF RAFIO	TEST GROUP LVGAT02.0VAA SEFUL LIFE (miles) ORVR EVAP 000 150000 IAL FEATURES & EXHAUST EMISSION SYSTEMS WU-TWC, TWC, WR-H02S, H02S, DF * EVAPORATIVE & F O ORVR FAMILY EVAPORATIVE & F O ORVR FAMILY EVAPORATIVE & F O ORVR FAMILY N EVAPORATIVE & F O ORVR FAMILY EVAPORATIVE WGAR0135VCS LEV 3 OPTION NMOG CRE WARRANTY N NMOG CRE O ORVR FAMILY N N NMOG CRE O ORVR FAMILY N N NMOG CRE O ORVR FAMILY N N N NMOG CRE O ORVR FAMILY N N N N N N N N N N N N N	TEST GROUP TEST GROUP VEHICLE CLASS(E LVGAT02.0VAA LDT2 SEFUL LIFE (miles) ORVR EVAP 150000 VEHICLE EMISS VEHICLE EMISS VEHICLE EMISS FTP LEV3 ULEV125 IAL FEATURES & EXHAUST EMISSION CONTRO SYSTEMS WU-TWC, TWC, WR-H02S, H02S, DFI, TC, CA * EVAPORATIVE & REFUELING OF ORVR FAMILY EVAPORATIVE STD CATE VGAR0135VCS LEV 3 OPTION2 WITH EMISSION OF CREDIT FOR EXTENDED WARRANTY N NMOG CREDIT FOR ZERO-EVAL WARRANTY N NMOG AND FLEE CH4 RAF RAFIO RATIO NMOG+N NM	TEST GROUP IN TEST GROUP VEHICLE CLASS(ES) LVGAT02.0VAA LDT2 SEFUL LIFE (miles) ORVR EVAP 000 150000 LEV3 ULEV125 LEV IAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS WU-TWC, TWC, WR-H02S, H02S, DFI, TC, CAC * EVAPORATIVE & REFUELING (EVA * EVAPORATIVE STD CATEGORY VGAR0135VCS LEV 3 OPTION2 WITH FEL EMISSION CREDI OG+NOX FLEET AVE. EDIT FOR EXTENDED WARRANTY N NMOG CREDIT FOR NON-F ZERO-EVAP NMOG AND FLEET AVE. CH4 RAF NMOG/NMHC RATIO NMOG+NOX FL PC+LDT (0-37 (g/mi)	TEST GROUP INFORM. TEST GROUP VEHICLE CLASS(ES) LVGAT02.0VAA LDT2 DI SEFUL LIFE (miles) VEHICLE EMISSION CATEGORY FTP SFT 000 150000 LEV3 ULEV125 LEV 3 COM IAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS WU-TWC, TWC, WR-H02S, H02S, DFI, TC, CAC * EVAPORATIVE & REFUELING (EVAP/OR) * EVAPORATIVE STD CATEGORY VGAR0135VCS LEV 3 OPTION2 WITH FEL EMISSION CREDIT INFO OG+NOX FLEET AVE. EDIT FOR EXTENDED WARRANTY N NMOG CREDIT FOR NON-PZEV ZERO-EVAP WMOG/NMHC RATIO NMOG+NOX FLEET SP CCH4 RAF NMOG-NOX FLEET SP CCH4 RATIO DI DI DI DI DI DI DI DI DI	TEST GROUP INFORMATION TEST GROUP VEHICLE CLASS(ES) FUEL C LVGATO2.0VAA LDT2 DEDICATED VEHICLE EMISSION CATEGORY SEFUL LIFE (miles) VEHICLE EMISSION CATEGORY PTP SFTP 000 150000 LEV3 ULEV125 LEV 3 COMPOSITE IAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC * PARTIAL PARTIAL WITH FINES EVAPORATIVE & REFUELING (EVAP/ORVR) FAMIL VGAR0135VCS LEV 3 OPTION2 WITH FEL EMISSION CREDIT INFORMATION OG+NOX FLEET AVE. EDIT FOR EXTENDED WARRANTY N NMOG AND FLEET AVERAGE INFORMA CH4 RAF NMOG/NMHC RATIO RATIO OG-NOX FLEET AVERAGE INFORMA NMOG AND FLEET AVERAGE INFORMA OG OFFI OG OFFI OFFI OFFI OFFI OFFI OFFI OFFI OFFI	TEST GROUP INFORMATION TEST GROUP VEHICLE CLASS(ES) FUEL CATEGORY LUGATO 2. OVAA LDT2 DEDICATED SINGLE FUEL VEHICLE VEHICLE VEHICLE VEHICLE FIP SFTP FIP GOOD 150000 LEV3 ULEV125 LEV 3 COMPOSITE PM ALFEATURES & EXHAUST EMISSION CONTROL SYSTEMS WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC * PARTIAL PARTIAL ALL MODELS PARTIAL WITH FINES EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION OF ORVR FAMILY VEHICLE CLASS EVAPORATIVE STD CATEGORY VEHICLE CLASS EMISSION CREDIT INFORMATION NMOG CREDIT FOR NON-PZEV WARRANTY N NMOG AND FLEET AVE. EDIT FOR EXTENDED WARRANTY N NMOG AND FLEET AVERAGE INFORMATION NMOG/NMHC RATIO NMOG-NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi) NMOG-NOX FLEET STD LDT (3751 LVW-856) (g/mi) NMOG-NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi) NMOG-NOX FLEET STD CCH4 RATIO NMOG-NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi) NMOG-NOX FLEET STD LDT (3751 LVW-856) (g/mi) NMOG-NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi) NMOG-NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi) NMOG-NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi) NMOG-NOX FLEET STD PC-LDT (0-3750 LVW) (g/mi) PM-NOX PLEET STD PC-LDT (0-3750 LVW) (g/mi) PM-NOX PLEE	TEST GROUP INFORMATION TEST GROUP VEHICLE CLASS(ES) FUEL CATEGORY LDT2 DEDICATED SINGLE FUEL VEHICLE VEHICLE EMISSION CATEGORY FTP SFTP FTP SFTP INTERIM / INTERIM FTP SFTP SFTP FTP SFTP INTERIM / INTERIM FTP SFTP FTP SFTP FTP INTERIM / INTERIM FTP SFTP FTP SFTP FTP DBD STATUS BWJ-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC * PARTIAL ALL MODELS * PARTIAL WITH FINES EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION POORT FAMILY EVAPORATIVE STD CATEGORY FYAP EMISSION STD VEHICLE CLASS STATUS FULL * PARTIAL ALL MODELS PARTIAL WITH FINES EVAP EMISSION STD VEHICLE CLASS STATUS FULL * PARTIAL ALL MODELS PARTIAL ALL MODELS PARTIAL BLIC MODELS STATUS FULL * PARTIAL ALL MODELS PARTIAL BLIC MODELS STATUS FULL * PARTIAL ALL MODELS PARTIAL BLIC MODELS STATUS FULL * PARTIAL BLIC MODELS PARTIAL BLIC MODELS STATUS FULL * PARTIAL BLIC MODELS PARTIAL BLIC MODELS STATUS FULL * PARTIAL BLIC MODELS F		

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 for PC, LDT and MDV).

This Executive Order hereby supersedes Executive Order A-413-0152 dated September 13, 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

Allen Lyons, Chief

Emissions Certification and Compliance Division

day of October 2019.



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0.36

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12.5

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 **FUEL TYPE** нсно PMNOx CO NMOG+NOx (mg/mi) (g/mi) (g/mi) (g/mi) (g/mi) **CERT** STD CERT STD STD CERT

STD

STD

GASOLINE-TIER3 E10

CERT

FTP@50K

20°F @ 50K

CERT

1111 @3011										1	1
FTP@UL	GASOLINE- TIER3 E10	0.0906	0.125	0.23	2.1	*	*	0.5	4	0.0018	0.003
50°F @4K	GASOLINE- TIER3 E10	0.0757	0.250	0.54	2.1	*	*	1.3	16		
COLUMN TO SERVICE THE SERVICE	TIERS EIG					· NI	IOG+NO	(g/mi)		CO (g/m	i)
			FUEL TYP	E		CE		STD	CER	RT	STD
			*			<u> </u>	*	*		9, 299	
HWFET @	50K									MARIANA PARA	
HWFET @	ขาน ขา	GASO	LINE-TIE	R3 E10		0.0	213	0.125			
1	5					Annahila bettelan kett	CARCUPAL MINISTER SERVICES	TO MAKE THE PROPERTY TO	1		

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

2017年18日本省		规律系	TI EXTINGULE	US06		SC03	3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
@ 4K		STD	*	*		*	*			基础
		CERT	*	*	1.8	*	*	0.0543	0.52	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.083	4.2	*
	TIEKS EIU	BIN				NDAPDS AND	OFDTIFIC	0.110		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

١		MHOLE AFHICE	EEVAPO	MATIVE	MIOOIOI	01711127111				
			WHOLE \	RL (g/mi) @ UL						
	EVAPORATIVE	FUEL TYPE	3DHS	S (g/test) @	D UL	2DH	⊣S (g/test) (g UL	KL (g/iii	ii) @ OL
	FAMILY	,	CERT	STD FEL		CERT	STD	FEL	CERT	STD
			CERT	310	1	02.11				
	LVGAR0135VCS	GASOLINE-	0.2770	0.400	0.400	0.2620	0.400	0.400	0.000	0.05
	TACITATION	TIER3 E10					LOTANDAD	DC AND CE	TIFICATION	EVELS

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

- Oltata i i				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K				
FAMILY	FUEL TYPE	CERT	STD	10221112	CERT	STD	CERT	STD	CERT	STD			
	FUEL TYPE	CLKI	010										
LVGAR0135VCS	GASOLINE- TIER3 E10	0.010	0.20	GASOLINE- TIER3 E10	*	*	*	*	0.016	0.020			



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)								
EVAPORATIVE FAMILY LEAK FAMILY		CERT	STD					
LVGAR0135VCS	LVGAR0135VCS-001	*	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

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
VOLKSWAGEN	ATLAS	LDT2	2.0	SA8	LVGAR0135VCS	1	P
VOLKSWAGEN	ATLAS CROSS SPORT	LDT2	2.0	SA8	LVGAR0135VCS	1	P
VOLKSWAGEN	ATLAS CROSS SPORT 4MOTION	LDT2	2.0	SA8	LVGAR0135VCS	1	P
VOLKSWAGEN	ATLAS CROSS SPORT 4MOTION R-LINE	LDT2	2.0	SA8	LVGAR0135VCS	1	P
VOLKSWAGEN	ATLAS CROSS SPORT R-LINE	LDT2	2.0	SA8	LVGAR0135VCS	1	P
VOLKSWAGEN	ATLAS R-LINE	LDT2	2.0	SA8	LVGAR0135VCS	1	P