### California Environmental Protection Agency

@ Air Resources Board

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0042 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

Pursuant to the authority vested in the 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: 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.

		1684	DO SE	fille 13. Gallox	TEST GRO	UP INF	ORN	IATION	1 18	Clark entlic		ine, basal an	
MOD		TEST G	ROUP	VEH	ICLE CLASS(E	S)	FUEL CATEGORY				FUEL TYPE		
201	6 0	GVGAV06	OVLN	DE ALB ELLIDS	PC ne		D	EDICATED VEH	SING		GASOLINE		
	USEF	JL LIFE	(miles	V	EHICLE EMISSI	ON CA	TEG	ORY	IN	TERIM / INT	ERMEDIA	TE IN-USE STD	
EX	H/ORVI	3	EVA	P	FTP	2 5 10 100	SFT	Р	70.757	FTP	EIN DUCK	SFTP	
1	20000		1500	00 1	EV2 LEV		V 2 TAND	SFTP ARD		alles Vegel	ever dua	re-Ferred * of Am	
SP	ECIAL	FEATUR		EXHAUST EMIS	SION CONTRO			OBD S1	ratu	S	ENGINE	DISPLACEMENT (L)	
1	2WU-	TWC, 21		WR-HO2S, 2HC C, 2CAC, FFS		٤,	5,1	FULL	ALI	MODELS			
*	* P							ARTIAL	MA	*	6.0		
*	* *						PARTIAL WITH * FINES		*				
				EVAPORATIVE	& REFUELING	(EVAF	P/OR	/R) FAMILY	INF	ORMATION			
EV	AP / OF	RVR FAN	MILY	EVAPORAT	IVE STD CATE	GORY		EVAP EMIS VEHICLE			SPECIA	L FEATURES	
	GVGAR	0130EA1	1		LEV 2			PC			*		
					EMISSION CI	REDIT	INFO	RMATION	-				
		ALLOW	ANCE	FOR TEST GRO	OUP			CREDIT FO		NMOG CR		OPTIONAL EXH STD FOR WORK	
BAS	SELINE	PZEV		AT PZEV	TZEV	NOI	N-PZI	EV ZERO-E	VAP	DC	PR	TRUCKS	
	*			*	*			N		N		N	
				NM	OG AND FLEET	AVER	RAGE	INFORMA	TION				
NMOG RAF CH4 RAF FTP NMOG/NMHO			HCHO/NM	HCHO/NMHC RAT		PC+LDT	+NOX FLEET STD .DT (0-3750 LVW) (g/mi)		NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)				
	*	*		1.04		*			0.09	93		0.110	

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.

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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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan 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

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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## 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**

M VO Ampresi Sulta Variness M Sensilensa	NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
GASOLINE - TIER 2 UNLEADED	0.025	0.075	0.4	3.4	0.03	0.05	1	15	*	*
GASOLINE - TIER 2 UNLEADED	0.028	0.090	0.5	4.2	0.03	0.07	1	18	*	0.01
GASOLINE - TIER 2 UNLEADED	0.042	0.150	0.5	3.4	0.03	0.05	1	30		
	TIER 2 UNLEADED  GASOLINE - TIER 2 UNLEADED  GASOLINE - TIER 2	GASOLINE - TIER 2 UNLEADED  GASOLINE - TIER 2 UNLEADED  GASOLINE - TIER 2 UNLEADED  GASOLINE - TIER 2 0.028	(g/mi)     CERT   STD     STD	(g/mi) (g	(g/mi)   (g/mi)     (g/mi)	(g/mi)         (g/mi)         (g/mi)         (g/mi)           CERT         STD         CERT         STD         CERT           GASOLINE - TIER 2 UNLEADED         0.025         0.075         0.4         3.4         0.03           GASOLINE - TIER 2 UNLEADED         0.028         0.090         0.5         4.2         0.03           GASOLINE - TIER 2         0.042         0.150         0.5         3.4         0.03	(g/mi)         (g/mi)         (g/mi)         (g/mi)           CERT         STD         CERT         STD           GASOLINE - TIER 2         0.028         0.090         0.5         4.2         0.03         0.07           GASOLINE - TIER 2         0.042         0.150         0.5         3.4         0.03         0.05	(g/mi)         (g/mi)         (g/mi)         (mg)           CERT         STD         CERT         STD         CERT           GASOLINE - TIER 2 UNLEADED         0.025         0.075         0.4         3.4         0.03         0.05         1           GASOLINE - TIER 2 UNLEADED         0.028         0.090         0.5         4.2         0.03         0.07         1           GASOLINE - TIER 2         0.042         0.150         0.5         3.4         0.03         0.05         1	(g/mi)   (g/mi)   (g/mi)   (mg/mi)	(g/mi)         (g/mi)         (g/mi)         (mg/mi)         (g/mi)         (mg/mi)         (g/mi)         (mg/mi)         (g/mi)         (g/mi)         (g/mi)         (mg/mi)         (cg/mi)         (cg/mi)

	FUEL TYPE	NOx	(g/mi)	CO (g/mi)		
	FUELTIFE	CERT	STD	CERT	STD	
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0.01	0.07			
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.01	0.09			
20°F @ 50K	GASOLINE-COLD CO HIGH OCTANE			4.9	10.0	

### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	CON	POSITE	7777
	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
		CERT	0.055	0.2		0.092	0.8			
@ 4K	- TIER 2 UNLEADED	STD	0.14	8.0		0.20	2.7			
		CERT	*	*	*	*	*	*	*	*
@ UL	*	STD	*	*	*	*	*	*	*	*
		BIN						*		Name of

## WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			WHOLE	VEHICLE	EVAPORA'	TIVE TESTI	NG .		
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) (	@ UL	2DI	HS (g/test) (	D UL	RL (g/n	ii) @ UL
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
GVGAR0130EAN	GASOLINE - TIER 2 UNLEADED	0.44	0.50	*	0.45	0.65	*	0.00	0.05

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				2 2 3 4 5 4 5	EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS 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) @ 4					
FAMILY	FUEL TYPE	CERT	STD	TOLETTIC	CERT	STD	CERT	STD	CERT	STD				
GVGAR0130EAN	GASOLINE - TIER 2 UNLEADED	0.01	0.20		*	*	*	*	*	*				

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; 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; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; 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 sparkignited 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; 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

2016 MODEL	YEAR: VEHIC	LE MODELS	INFORMATION
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MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
BENTLEY	CONTINENTAL GT	PC	6.0	SA8	GVGAR0130EAN	1	F	*
BENTLEY	CONTINENTAL GT	PC	6.0	SA8	GVGAR0130EAN	1	F	*
BENTLEY	FLYING SPUR	PC	6.0	SA8	GVGAR0130EAN	1	F	*