California Environmental Protection Agency

⊘ Air Resources Board

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0057

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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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.

						TEST GRO	UP II	NFOR	MATION		4			
MODE		TEST G	ROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
2016	5 (GVGAT03	3.6VUK		LDT3				DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEF	UL LIFE	(miles)		VEHIC	CLE EMISS	ION (CATE	GORY	II	NTERIM / IN	ERME	DIA	TE IN-USE STD
EXH	I/ORV	R	EVAP		F	TP		SF	TP		FTP			SFTP
12	20000		15000	0	LEV2	ULEV	I		SFTP NDARD		*			*
SPE	CIAL	FEATUR		(HAUST E	MISSIO	N CONTRO	L		OBD S	TAT	us	ENG	INE	DISPLACEMENT (L)
1	2TWC, 2WR-HO2S, 2HO2S, DFI								FULL	AI	L MODELS			
*	*							F	PARTIAL	*		3.6		
*	* *							PAF	RTIAL WITH FINES	*				
			E	VAPORA	TIVE & R	EFUELING	(EVA	P/OF	RVR) FAMILY	/ INI	ORMATION			
EVA	AP / OF	RVR FAI	MILY	EVAPO	RATIVE	STD CATE	SORY	RY EVAP EMISSION STD SPECIAL FEATURE VEHICLE CLASS			L FEATURES			
G	GVGAR	0230VA	K		LE	LEV 2 LD			т3	T3 *			*	
					Εľ	MISSION CI	REDI	TINF	ORMATION					
		ALLOW	ANCE F	OR TEST	GROUP			NMOG CREDIT FOR NMOG CREDIT FOR			OR	OPTIONAL EXH.		
BASE	BASELINE PZEV AT PZEV					TZEV	NC	JN-P2	ZEV ZERO-E	VAF	DC)K		TRUCKS
* *						*			N		1	И		N
	NMOG AND FLEET AVERAGE INFORMATION													
NMOG	MOG RAF CH4 RAF FTP NMOG/NMHC HCHO/NMH			HC R	C RATIO PC+LDT		IMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)		LD	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)				
*		*		1.04		0.0	030			0.0	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 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

is the property of which is											
		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
FTP@50K	GASOLINE - TIER 2 UNLEADED	0.0266	0.040	0.42	1.7	0.025	0.05	*	8	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.0314	0.055	0.43	2.1	0.027	0.07	*	11	0.006	0.01
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.0462	0.080	0.42	1.7	0.031	0.05	0.0	16		

	FUEL TYPE	NOx	(g/mi)	CO (g/mi)		
in the state of th	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0.010	0.07			
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.012	0.09	have a state of the second second	The Spike with my Signal (K. 190).	
20°F @ 50K	GASOLINE-COLD CO HIGH OCTANE			1.62	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0:	3	CON	POSITE	
	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)
	GASOLINE	CERT	0.029	1.75		0.013	0.18			
@ 4K	- TIER 2 UNLEADED	STD	0.40	10.5		0.31	3.5			
		CERT	*	*	*	*	*	*	*	*
@ UL	*	STD	*	*	*	*	*	. *	*	*
		BIN				的这类是更加。 1		*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
GVGAR0230VAK	GASOLINE - TIER 2 UNLEADED	0.486	0.90	*	0.729	1.15	*	0.00	0.05

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ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFICA	ATION LEV	ELS
					FUEL C	NLY EVA	& CANIS	TER BLEE	D	
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K	
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD
GVGAR0230VAK	GASOLINE - TIER 2 UNLEADED	0.14	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: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
VOLKSWAGEN	TOUAREG	LDT3	3.6	A8	GVGAR0230VAK	1	F	*