California Environmental Protection Agency

⊘ Air Resources Board

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0069

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 GROU	JP IN	FORMAT	ION						
MODE		TEGI GOOTIO			VEHICLE CLASS(ES)			FUEL CATEGORY				FUEL TYPE		
2017	HVGAV03.6VUG			PC			DEDI	DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
.1	USEFUL	LIFE	(miles)	VI	EHICLE EMISSI	ON C	ATEGOR	Y .	IN.	TERIM / INTE	ERMEDIATE IN-USE STD			
EXH	/ORVR		EVAP		FTP		SFTP	SFTP FTP			SFTP			
12	0000		150000	L	EV2 ULEV		EV 2 SFI		*			*		
SPE	CIAL FE	ATUR		AUST EMISS	SION CONTROL			OBD ST	ATU	IS	ENGINE	DISPLACEMENT (L)		
1	2W0	J-TWC	2TWC,	2WR-HO2S,	2HO2S, DFI		FUL	L	*					
*				* PARTIAL ALL MODELS						3.6				
*		* PARTIAL WITH * FINES												
			EV	APORATIVE	& REFUELING	(EVAI	P/ORVR)	FAMILY	INF	ORMATION				
EVA	P / ORV	R FAN	AILY	EVAPORATI	VE STD CATEG	ORY		AP EMIS			SPECIA	L FEATURES		
H	VGAR01	25VA	r		LEV 2	EV 2			PC			*		
					EMISSION CR	EDIT	INFORM	ATION						
	A	LLOW	ANCE FO	R TEST GRO	OUP .	_	IMOG CR			NMOG CRE		OPTIONAL EXH STD FOR WORK		
BASE	LINE P	ZEV	AT	PZEV	TZEV	NO	N-PZEV 2	ZERO-EV	/AP	DO	₹	TRUCKS		
* *					*	* N				N	1.0.	N		
				NMC	OG AND FLEET	AVE	RAGE INF	ORMAT	ION					
NMOG RAF	CH4 RAF	NMC	FTP G/NMHC ATIO	HCHO/NMH RATIO	PC+LDI (0		LVW) LDT (37		NOX FLEET STD 3751 LVW-8500) + MDPV (g/mi)		NMOG+NOX FLEET ST MDV (10001-14000 GVWR) (g/mi)			
*	*		1.04	0.03	0.	086		0.101			*			

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.

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.

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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).

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 __

day of June 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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GASOLINE -

TIER 2 UNLEADED 0.283

0.50

HVGAR0125VAF

ATTACHMENT

												-	, 50°F, 20°		-	
	FUEL		CI mo ad OI 10	H4: met onoxide ljustme RVR [g	thane; Ne; NOx: ont factor	MOG: non- oxides of nit 2DHS/3DI on dispense	CH4 organger, Handler (CH4) (C	anic ga ICHO: c/test]: oard re	as; HC: h formalde 2/3 days	nydrocar ehyde; P diurnal vapor rec	bon; NMH M: particu +hot-soak covery; g:	IC: nulate ;; RL gran	non-GH4 H0 matter; RA [g HC/mi]: m; mg: milli pplemental	C; CO: ca F: reactive running le gram; mi:	rity oss;	
	NE.				NMOG (g/mi)		CO (g/mi)		NOx (g/mi)			HCH(PM (g/mi)		
				CERT	STE	CER	ST	D	CERT	STD	CER	Т	STD	CERT	STD	
FTP@50		INE ER 2 EADEI	0	.0199	0.04	0.36	1.	7	0.008	0.05	0.1		8	*	*	
FTP@U	_	INE ER 2 EADEI	0	.0220	0.05	0.47	2.	1	0.008	0.07	0.3	3	11	0.004	0.01	
50°F @4		INE ER 2 EADEI	0	.0546	0.08	0.49	1.	7	0.034	0.05	0.0		16		, a	
(ATT Tasa					FUEL TYPE				NOx (g/mi)					CO (g/mi)		
									CERT		STD		CERT	-	STD	
HWFET @ 50K GASOLINE					E - TIER 2 UNLEADED			0.002 0		0.07						
HWFET@UL GASOLI			SOLINE	NE - TIER 2 UNLEADED				0.002		0.09		,3, , , , , , , , , , , , , , , , , , ,		, e.		
20°F (20°F @ 50K GASOLINI			OLINE-	E-COLD CO HIGH OCTANE				A A Tack Street		n- F	- '			10.0	
			SI	FTP EX	HAUST	EMISSION	STAND	ARDS	AND CI	ERTIFIC	ATION L	EVE	LS			
						US06				SC03				COMPOSITI		
	FUEL TY	PE		1	IC+NOx g/mi)	CO (g/mi)	1	PM g/mi)	1	+NOx mi)	CO (g/mi)	NN	(g/mi)	CO (g/mi)	PM (mg/mi	
@ 4K	GASOLIN TIER UNLEAD	2	CERT	0	.034	0.25			0.0	014	0.00	7000				
				D 0.14		8.0	8.0		0.20		2.7					
	С		CERT	RT * D *		*	* *		*		*	* 0		*	*	
@ UL	TIER	ASOLINE - TIER 2 UNLEADED				*					*		0.103	*		
			BIN	1		1			1				0.110		1	
		WHO	OLE VE	EHICLE	EVAPO	PRATIVE E	MISSIO	N STA	NDARD	S AND	CERTIFIC	ATI	ON LEVEL	S		
					WHOLE VEHICLE EVA				PORATI	VE TES	ΓING	- DI / / !! O !!!				
	DRATIVE			/PE	3DH	S (g/test) @	g/test) @ UL			2DHS (g/test) (RL	RL (g/mi) @ UL		
					CERT	STD	FEL	CE	RT STD		FE	FEL		CERT		

0.245

0.65

0.000

0.05

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ORVR / FUI	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFICA	ATION LEV	ELS		
				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL			IG TEST) @ UL	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
HVGAR0125VAF	GASOLINE - TIER 2 UNLEADED	0.003	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; 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; ŽEV: 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 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; 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

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
VOLKSWAGEN	PASSAT	PC	3.6	AMS 6	HVGAR0125VAF	1	P	*