California Environmental Protection Agency

O Air Resources Board

BAYERISCHE MOTOREN WERKE AG Executive Order: A-008-0422

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 GROUP	INF	ORMATION					
MODE		EST G	ROUP	VEHI	CLE CLASS(ES)		FUEL CATEGORY		GORY	FUEL TYPE		
2017	НЕ	MXT02	2.0N47		LDT2	1	DEDICA	TED SIN	NGLE FUEL LE	I	DIESEL	
	USEFUI	LIFE	(miles)	VE	HICLE EMISSION	N CA	TEGORY	11	ITERIM / INT	ERMEDIA	TE IN-USE STD	
EXH	I/ORVR		EVAP		FTP		SFTP	4	FTP	SFTP		
12	20000		*	LE	V2 ULEV	-	V 2 SFTP		*	*		
SPE	CIAL FI	EATUR	ES & EXH		SION CONTROL		ОВ	D STAT	us	ENGINE	DISPLACEMENT (L)	
1 D	FI, TO	, CAC		GRC, SCRC,	DPF, NOXS(2)	,	FULL	AI	L MODELS			
*				*			PARTIAL		*		2.0	
*				*			PARTIAL WI	ТН	*			
			EV	APORATIVE	& REFUELING (E	VAP	P/ORVR) FAM	VILY IN	ORMATION			
EVA	P/ORV	R FAI	MILY	EVAPORATI	VE STD CATEGO	RY		EMISSIC		SPECIA	L FEATURES	
	*				*			*		*		
-	at sensor a tra				EMISSION CRE	DIT	INFORMATION	ON				
	A	LLOW	ANCE FO	R TEST GRO			MOG CREDI		NMOG CR		OPTIONAL EXH STD FOR WORK	
BASI	ELINE P	ZEV	AT	PZEV	TZEV	NON	N-PZEV ZER	O-EVAF	DC	DOR TRUCK		
* * *				*		n n				N		
				NMC	G AND FLEET A	VER	RAGE INFOR	MATIO	١			
NMOG RAF	CH4 RAF	NMC	FTP G/NMHC RATIO	HCHO/NMHO RATIO	NMOG+NOX PC+LDT (0-3	750	LVW) L	DT (375	X FLEET ST 1 LVW-8500 MDPV (g/mi)	MDV	NOX FLEET STD (10001-14000 VWR) (g/mi)	
*	*		*	*	0.0	86		C	.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 July 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LE	LEVELS	ELS
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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

			HC mi)	C (g/i	_	N((g/		HC (mg		P (g/i	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	DIESEL-EPA	0.005	0.040	0.1	1.7	0.01	0.05	*	8	*	*
FTP@UL	DIESEL-EPA	0.008	0.055	0.1	2.1	0.01	0.07	*	11	0.00	0.01
50°F @4K	*	*	*	*	*	*	*	*	*	*	- New York

	FUEL TYPE	NOx	CO (g/mi)		
	FOEL TIPE	CERT	STD	CERT	STD
HWFET @ 50K	DIESEL-EPA	0.00	0.07		******
HWFET @ UL	DIESEL-EPA	0.00	0.09		
20°F @ 50K	*			*	*

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

Wh.				US06		SC03	3	CON	POSITE	
	FUEL TYPE	Y	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)
@ 4K	DIESEL-EPA	CERT	0.01	0.0		0.01	0.0			
		STD	0.25	10.5		0.27	3.5			100
		CERT	*	*	*	*	*	0.013	*	*
@ UL	DIESEL-EPA	STD	*	*	*	*	*	0.103	*	*
		BIN						0.180		G. Tall

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE	VEHICLE	EVAPORAT	TIVE TESTII	NG		
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2Di	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
*	*	*	*	*	*	*	*	*	*

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

					FUEL C	NLY EVA	P & CANIS	TER BLEE	ED	
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
*	*	*	*	*	*	*	*	*	*	*

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*: 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; 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
BMW	X3 XDRIVE28D	LDT2	2.0	SA8	*	1	F	*