California Environmental Protection Agency

OB Air Resources Board

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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 INFORMATION															
MOD YEA		TEST G	ROUP VEHICLE CLASS(ES)				S)		FUEL CATEGORY			FUEL TYPE			
201	016 GGMXT06.0396 MDPV							DEDICATED VE	SIN			G.	ASOLINE		
	USEF	UL LIFE	(miles)		VE	EHICLE EMISS	ION (CATE	GORY	IN	ITERIM / IN	TERM	EDIA	TE IN-USE STD	
EX	H/ORV	R	EVAP			FTP		SF	TP		FTP			SFTP	
120000 150000)	COUN	TIER2 BIN8 TED AS ARB EV2 ULEV	AS ARB *			*		*		*		
SP	ECIAL	FEATUR		HAUS STEMS		SION CONTRO	_		OBD S	TAT	JS	EN	GINE	DISPLACEMENT (L)	
1		21	WC, TWO	, 2но	2S(2),	SFI			FULL	AL	L MODELS	1			
*								PARTIAL			*		6.0		
*				*				PAI	RTIAL WITH * FINES						
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EV	AP / OI	RVR FAI	MILY	EVA	PORATI	IVE STD CATEGORY EVAP EM VEHICL					SP	ECIA	L FEATURES		
	GGMXR	.022384	1		LEV 2				MDPV				*		
						EMISSION C	REDI	TINF	ORMATION		······································				
		ALLOW	ANCE F	OR TE	ST GRO	ROUP						2 E I II I E C I E I		OPTIONAL EXH.	
BAS	SELINE	PZEV	АТ	PZEV		TZEV	NC	ON-P	ZEV ZERO-E	VAP	DO	DR		TRUCKS	
* *				*		*			N		1	N N			
					NMC	G AND FLEET	AVE	RAG	E INFORMA	TION				-	
NMO	NMOG RAF CH4 RAF FTP NMO			HCHO/NMHC F				NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)		L	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)				
	*	*		1.	04	0.0	040			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).

BE IT FURTHER RESOLVED:

The listed vehicle models are federally certified, and are certified under the provisions of 13 CCR Section 1961.2(a)(12) and the incorporated test procedures.

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 23 day of December 2015.

Annette Hebert, Chie

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

TOTAL STREET ASSET	EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS
EAMVIST VIII	
EVUADO I HIVE	EVALORATIVE CINISSION STANDANDS AND SENTITION TON LEVELS

	EXHAUST EMISSION STANDARDS	AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°	'F)
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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

SACHTERS AND STATE OF				The state of the s								
		NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		P (g/	M mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K	GASOLINE - TIER 2 UNLEADED	0.045	0.100	1.3	3.4	0.05	0.14	*	15	*	0.02	
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.076	0.125	1,5	4.2	0.07	0.20	*	18	*	0.02	
50°F @4K	*	*	*	*	*	*	*	*	*		olic odnina The	

		NOx ((g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*	J. A. A.		
HWFET @ UL	*	*	*			
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			5.6	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COMPOSITE		
	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	*	*		*	*			1:375
@ 4K	*	STD	*	*		*	*		17. T.A.	12 July 2 1
,		CERT	*	*	*	*	*	*	*	*
@ UL	*	STD	*	*	*	*	*	*	*	*
		BIN		建筑过程中				*		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

				WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH:	S (g/test) (@ UL	2D	HS (g/test) @	RL (g/mi) @ UL			
			CERT	STD	FEL	CERT	STD	FEL	CERT	STD
	GGMXR0223841	GASOLINE - TIER 2 UNLEADED	0.71	1.00	*	0.65	1.25	*	0.000	0.05

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

				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/g	gallon) @	D 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			
GGMXR0223841	GASOLINE - TIER 2 UNLEADED	0.03	0.20	. *	*	*	*	*	*	*			

automated manual-selectable transmission; OT: other transmission

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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: medium-duty 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:

2016 MODEL YEAR: VEHICLE MODELS INFORMATION **ENGINE EVAPORATIVE EXH** TRANS TYPE VEH CLASS OBD PZEV TYPE MODEL MAKE (L) **FAMILY ECS** G2500 EXPRESS F CHEVROLET MDPV 6.0 **A6** GGMXR0223841 1 2WD PASS MDPV G2500 EXPRESS CHEVROLET CONV 2WD CARGO MDPV 6.0 **A6** GGMXR0223841 1 ਜ MDPV G3500 EXPRESS GGMXR0223841 1 F CHEVROLET MDPV 6.0 A6 2WD PASS MDPV G2500 SAVANA 6.0 **A6** GGMXR0223841 1 F GMC MDPV 2WD PASS MDPV G2500 SAVANA GGMXR0223841 1 F GMC CONV 2WD CARGO MDPV 6.0 **A6** MDPV G3500 SAVANA 6.0 **A6** GGMXR0223841 1 F * GMC MDPV 2WD PASS MDPV