### 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		TEST	GROL	JP	VE	HICLE	CLASS(ES	)		FUEL CATEGORY				FU	EL TYPE	
201	.6	GGMX	702.00	31			PC		DEDICATED SINGLE FUEL VEHICLE				GASOLINE			
USEFUL LIFE (miles) VEHICLE EMISSI							LE EMISSION	ON CA	TEC	ORY	IN	TERIM / IN	TERME	DIA	TE IN-USE STD	
EX	EXH/ORVR EVAP					F1	ГР		SF	TP	FTP			SFTP		
120000 150000			COU	NTED	ER2 BIN4 D AS ARB ULEV STANDARD  *		*									
SP	ECIAL	FEAT	URES	& EXHAUS		SSION	CONTROL			OBD ST	ΓΑΤΙ	JS	ENGINE DISPLACEMENT (L)			
1	TWC(2), HO2S(2), DFI, TC, CAC FULL ALL MODELS															
*	* PARTIAL *										2.0					
*	* PARTIAL WITH * FINES															
	EVAPORATIVE & REFUELING (EVAPIORVR) FAMILY INFORMATION															
EV	AP / C	RVR F	AMILY	EVA	PORA	TIVE S	STD CATEG	ORY	Y EVAP EMISSION STD VEHICLE CLASS			SPE	CIAI	L FEATURES		
	GGMX	RO112	830			LEV	7 2			P	С				*	
	GGMX	R0120	818			LEV	7 2		PC			*				
	GGMX	R0133	810			LEV	7 2		PC			*				
						ΕN	ISSION CR	EDIT II	NFC	RMATION						
		ALL	NAWC	CE FOR TI	EST GR	OUP				CREDIT FO		NMOG CR	EDIT F	OR	OPTIONAL EXH. STD FOR WORK	
ВА	SELIN	E PZE\	/	AT PZE	V		TZEV	NON	-PZ	EV ZERO-E	VAP	DO	DR		TRUCKS	
	*			*			*			N		1	4		N	
					NIN	IOG A	ND FLEET	AVER	AGE	INFORMAT	ΓΙΟΝ					
NMO	G RAI	CH4	RAF	FTP NM	OG/NM ATIO	НС	HCHO/NMF	IC RA	TIO	PC+LDT		LEET STD 750 LVW) i)	LD.	T (37	G+NOX FLEET STD (3751 LVW-8500 (R) + MDPV (g/mi)	
	*		*	1	. 04		*			0.093 0.110			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).

#### 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.

This Executive Order hereby supersedes Executive Order A-006-1989 dated June 19, 2015.

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
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EXHAUST EMISSION S	TANDARDS AN	ID CERTIFICATION	ON LEVELS (FT	P, 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**

		<b>NM</b> (g/r		(g/i	O mi)	I	Ox mi)	HC (mg		P (g/	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.0245	0.070	0.64	2.1	0.016	0.04	.*,	11	*	0.01
50°F @4K	*	*	*	*	*	*	*	*	*		

		FUEL TYPE		NOx	(g/mi)	CO (g/mi)		
		POELTYPE		CERT	STD	CERT	STD	
HWFET	「@ 50K	*	X	*	*			
HWFE	T@UL	GASOLINE - TIER 2 UNLEADED		0.004	0.05			
20°F (	@ 50K	GASOLINE-COLD CO LOW OCTANE				2.30	10.0	

### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0	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)	
@ 4K	GASOLINE	CERT	0.024	1.44		0.011	2.55				
	- TIER 2 UNLEADED	STD	0.14	8.0		0.20	2.7				
	GASOLINE -	CERT	*	1.44	*	*	2.55	*	*	*	
@ UL	TIER 2	STD	*	*	*	*	*	*	*	*	
	UNLEADED	BIN						*			

### WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		WHOLE \	NG					
EVAPORATIVE FAMILY		3DH	S (g/test) @	) UL	2DI	HS (g/test) (	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
GGMXR0120818	GASOLINE - TIER 2 UNLEADED	0.343	0.50	*	0.580	0.65	*	0.000	0.05
GGMXR0133810	GASOLINE - TIER 2 UNLEADED	0.205	0.50	*	0.288	0.65	*	0.000	0.05
GGMXRO112830	GASOLINE - TIER 2 UNLEADED	0.343	0.50	*	0.580	0.65	*	0.00	0.05

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ORVR / FUI	ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS												
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/g	gallon) @	) UL	FUEL TYPE		IG TEST ) @ UL	2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
GGMXR0120818	GASOLINE - TIER 2 UNLEADED	0.025	0.20	*	*	*	*	*	*	*			
GGMXR0133810	GASOLINE - TIER 2 UNLEADED	0.011	0.20	*	*	*	*	*	*	*			
GGMXRO112830	GASOLINE - TIER 2 UNLEADED	0.025	0.20	*	*	*	*	*	*	*			

": not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1. LDT<6000#GVWR,0-3750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALWV; 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; ALWV: 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; AlR/AIRE: secondary air injection (belf driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI//FI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/S: 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; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable 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				
CADILLAC	ATS	PC	2.0	M6,SA8	GGMXR0120818	1	F	*				
CADILLAC	ATS AWD	PC	2.0	SA8	GGMXR0120818	1	F	*				
CADILLAC	CT6	PC	2.0	SA8	GGMXR0112830	1	F	*				
CADILLAC	CTS SEDAN	PC	2.0	SA8	GGMXR0133810	1	F	*				
CADILLAC	CTS SEDAN AWD	PC	2.0	SA8	GGMXR0133810	1	F	*				
CHEVROLET	CAMARO	PC	2.0	M6,SA8	GGMXR0133810	1	F	*				
CHEVROLET	MALIBU	PC	2.0	SA8	GGMXR0120818	1	F	*				