California Environmental Protection Agency

⊘ Air Resources Board

GENERAL MOTORS LLC. Executive Order: A-006-2003 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

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														
MODE	1	TEST G	ROUP		VEHICLE CLASS(ES)					FUEL CATEGORY		FUEL TYPE			
2016	6 (GMXV06	5.2089				PC			DEDICATED VE				GASOLINE	
	USEF	JL LIFE	(miles)		1	/EHIC	CLE EMISS	ION	CATE	GORY	ı	NTERIM / IN	TERME	DIA	TE IN-USE STD
EXI	H/ORVI	2	EVAP			F1	ГР		SF	TP		FTP			SFTP
1!	50000		150000		LE	EV3 I	LEV160	LEV	3 C	OMPOSITE		*			NMOG+NOX
SPE	ECIAL	FEATUR		HAUS		OISS	CONTRO	L		OBD S	ГΑ	rus	ENG	INE	DISPLACEMENT (L)
1		2TWC (2	2), 2HO	2S(2)	, DFI	, sc	, CAC			FULL	A	LL MODELS			
*				*					F	PARTIAL		*			6.2
*				*					PAF	RTIAL WITH FINES		* .			
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EVA	AP / OF	RVR FAN	MILY	EVAI	PORAT	IVE S	STD CATE	3OR	ORY EVAP EMISSION STD VEHICLE CLASS SF			SPE	CIA	L FEATURES	
	GGMXR	0133880				LEV	7 2			P	C				HCT
						ΕN	MISSION C	REDI	TINF	ORMATION					
		ALLOW	ANCE F	OR TE	ST GR	OUP				G CREDIT FO				OR	OPTIONAL EXH. STD FOR WORK
BAS	ELINE	PZEV	Α٦	PZEV	′		TZEV	N	JN-P	ZEV ZERO-E	VA		OR		TRUCKS
	*			*			*			N		1	1		N
					NIV	IOG A	AND FLEET	AVI	RAG	E INFORMA	TIO	N			
NMOG RAF CH4 RAF FTP NMOG/NMHC RATIO			нс	HCHO/NMHC RATIO		RATIC	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)		3750 LVW)	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)					
,	*	* 1.10 *				*		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.

California Environmental Protection Agency

OAir Resources Board

GENERAL MOTORS LLC. Executive Order: A-006-2003

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

Page 2 of 4

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).

day of August 2015.

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

The Chill

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Air Resources Board

GENERAL MOTORS LLC. Executive Order: A-006-2003

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

Page 3 of 4

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CE	ERTIFICATION LEVELS
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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

FTP@50K		NMOG+NOx (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	*	*	*	*	*	*	*	*	*	* .	*
FTP@UL	GASOLINE- LEV3 E10	0.052	0.160	0.6	4.2	*	*	*	4	*	0.01
50°F @4K	GASOLINE- LEV3 E10	0.237	0.320	1.0	4.2	*	*	*	30		

	FILE TYPE	NMOG+N	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE-LEV3 E10	0.012	0.160		
20°F @ 50K	GASOLINE-COLD CO HIGH OCTANE	-		1.7	10.0

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

4				US06		SC03	3	COM	IPOSITE	
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
0.11/	*	CERT *		*		*	*			
@ 4K	•	STD	*	*	и -	*	*			
		CERT	*	*	*	*	*	0.037	0.36	*
@ UL	GASOLINE- LEV3 E10	STD	*	*	*	*	*	0.110	4.2	*
	2545 210	BIN						0.120		

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
GGMXR0133880	GASOLINE - TIER 2 UNLEADED	0.20	0.50	*	0.29	0.65	*	0.00	0.05

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

				FUEL ONLY EVAP & CANISTER 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
GGMXR0133880	GASOLINE - TIER 2 UNLEADED	0.01	0.20	*	*	*	*	*	*	*

California Environmental Protection Agency

⊘ Air Resources Board

GENERAL MOTORS

Executive Order: A-006-2003 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: .DT<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 EXH DECS OBD PZEV T													
	CADILLAC	CTS-V	PC	6.2	SA8	GGMXR0133880	1	F	*				