California Environmental Protection Agency

O Air Resources Board

MCLAREN AUTOMOTIVE LIMITED Executive Order: A-401-0007-2

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 GRO	OUP IN	FORMAT	ION					
MODE	- I T	TEST GROUP			VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2016	GM	LNV03	. 8MA1	PC			DEDICATED SINGLE FUEL VEHICLE				GASOLINE		
USEFUL LIFE (miles) VEH					EHICLE EMISS	ICLE EMISSION CATEGORY			INTERIM / INTE			RMEDIATE IN-USE STD	
EXH/ORVR EVAP				FTP		SFTP			FTP		SFTP		
120000 150000				LEV2 LEV	2 LEV LEV 2 SFT STANDARI			*		*			
SPE	CIAL FE	ATUR		AUST EMIS	SION CONTRO	L		OBD S1	TATU	S	ENGINE	DISPLACEMENT (L)	
1	2TWC(2), 2HO2S(2), SFI, AIR, 2TC, 2CAC						FULL		ALL MODELS				
*	*						PARTIAL *		3.8				
*	*						PARTIAL WITH FINES		*				
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INFO	RMATION			
EVA	P / ORV	R FAN	MILY	EVAPORAT	IVE STD CATE	GORY		AP EMIS			SPECIA	L FEATURES	
G	GMLNR0164MB2					EV 2			PC			*	
					EMISSION C	REDIT	INFORM	ATION					
	A	LLOW	ANCE FO	R TEST GR	OUP		IMOG CR			NMOG CRE		OPTIONAL EXH.	
BASE	LINE P	ZEV	AT	PZEV	TZEV	NO	NON-PZEV ZERO-EV			VAP DOF		TRUCKS	
* *					*		И			N	N N		
				NM	OG AND FLEE	TAVE	RAGE IN	ORMAT	TION				
NMOG RAF	CH4 RAF NMOG/NMHC RATIO		HCHO/NMHC RATIO NMOG+NOX I PC+LDT (0-3 (g/m			750 LVW) LDT		G+NOX FLEET STD T (3751 LVW-8500 WR) + MDPV (g/mi)		NMOG+NOX FLEET STO MDV (10001-14000 GVWR) (g/mi)			
*	*	* 1.04 * 0.1				.160	0.160				*		

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.

MCLAREN AUTOMOTIVE LIMITED

Executive Order: A-401-0007-2 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 2 of 4

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 September 2016.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

This Executive Order hereby supersedes Executive Order A-401-0007-1 dated May 13, 2016.

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

Executive Order: A-401-0007-2 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

ATTACHMENT

	E					TIVE EN			-						}	
200			EXHAUS		methane; kide; NOx: ment facto [g HC/ga	NMOG: no coxides of or; 2DHS/3 illon disper legrees Fa	nitrogen BDHS [g	organic g ; HCHO: HC/test]: n-board re	as; HC: formald 2/3 day	hydrocai ehyde; F s diurnal vapor re	bon; NMh M: particu +hot-soak covery; g:	HC: no ulate r c; RL [gram	on-CH4 H matter; R/ g HC/mi]: ; mg: mill	C; CO: ca AF: reactive running ligram; mi:	vity oss;	
*1	,	GASOLINE - (TIER 2 UNLEADED		NMOG			co		NOx			нсно		PM		
	-6			(g/mi)		D CE	(g/mi)		(g/mi) CERT STD			(mg/n	STD	CERT	mi) STD	
FTP@5				0.02				3.4	0.02	0.05			15	*	*	
FTP@U	GASOLINE -		0.03	0.0	090 0	. 6	4.2	0.03	0.07	0.5	7	18	*	0.01		
50°F @4	O'F @4K GASOLINE - CA PHASE 2		0.0	77 0.1	150 1	. 5	3.4	0.02	0.05	1.8	3	30				
					FUEL TYPE					NOx (g/mi)				CO (g/mi)		
		11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			POEL TIPE			CERT		STD		CERT		STD		
HWFET @ 50K			GASOLI	GASOLINE - TIER 2 UNLEADED				0.	0.01		0.07			160 10 September 1900		
HWFET @ UL			GASOLI	NE - TI	ER 2 UN	2 UNLEADED		0.	0.02							
20°F @ 50K		0	ASOLINE-COLD CO HIGH OCTANE								2		1 10			
				SFTP	EXHAUS	TEMISSI	ON STAI	NDARDS	AND C	ERTIFIC	ATION L	EVEL	S			
	FUEL TYP		EL TYPE N		US06			3		SC03			CO	MPOSITE	OSITE	
, par					MHC+NOx CO (g/mi) (g/m			PM (mg/mi)		NMHC+NOx (g/mi)			NMOG+NOx (g/mi)		PM (mg/mi)	
@ 4K	T	TIER 2 UNLEADED		ER 2 CERT 0.07 0.					0.05							
				TD D	0.14	8.	0 0.20		.20	2.7		Commence of the Commence of th	100	aligner Autories in		
		* ST		RT	T *		* *			*		* *		*	*	
@ UL				TD OT	D *		* *			*	*		*	*	*	
			В	IN									*			
			WHOL	VEHIC	LE EVAP	ORATIVE						ATIO	N LEVEL	S		
FVAP	ORA	TIVE						LE EVAI	-				RI	_ (g/mi) @	UL	
	FAMILY FUE		FUEL				g/test) @ UL		2DHS (g/test)						W OL	
			GB SO	LINE -	CERT	STD	FEL	_ CE	RT	STD	FE	L	CER	Т	STD	
GMLNR	016	4MB2	TI	ER 2 EADED	2 0.25		*	0.	23 0.65		*	* 0.0		0.05		

ORVE LEUEL ONLY LOANIETER DI EER EVARORATIVE EMISSION STANDARDS AND CERTIFICATION I EVELS

	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY				FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS R (g/test		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
GMLNR0164MB2	GASOLINE - TIER 2 UNLEADED	0.10	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; 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

2016 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
MCLAREN	540C COUPE	PC	3.8	A	GMLNR0164MB2	1	F	*
MCLAREN	570S COUPE	PC	3.8	A	GMLNR0164MB2	1	F	*
MCLAREN	650S CAN-AM	PC	3.8	A	GMLNR0164MB2	1	F	*
MCLAREN	650S COUPE	PC	3.8	A	GMLNR0164MB2	1	F	*
MCLAREN	650S SPIDER	PC	3.8	A	GMLNR0164MB2	1	F	*
MCLAREN	675LT COUPE	PC	3.8	A	GMLNR0164MB2	1	F	*
MCLAREN	675LT SPIDER	PC	3.8	A	GMLNR0164MB2	1	F	*
MCLAREN	MSO HS	PC	3.8	A	GMLNR0164MB2	1	F	*