

Executive Order: A-018-0213

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 1 of 4

Pursuant to the authority vested in California 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: That 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	UP II	NFOR	MATION						
MOD YEA	1	TEST GROUP			VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE			
201	9 K	VVXT02.0U70		LDT2							SINGLE FUEL HICLE		GASOLINE		
	USEFU	L LIFE (miles)			VEH	ICLE EMISS	ION C	ATE	GORY	1	INTERIM / IN	ΓER	MEDIATE IN-USE STD		
EX	H/ORVR	EVA	>			FTP		SF	TP		FTP		SFTP		
1	50000	15000	00		LEV3	ULEV70	LEV	3 CC	MPOSITE		NMOG+NOX AN	D P	M PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	ī	TATUS	E	NGINE DISPLACEMENT			
1	1 TWC, WR-HO2S, HO2S, DFI, TC, CAC								FULL	I	*				
*	* *							Р	PARTIAL ALL MODELS		2.0				
*	* *							1	ARTIAL WITH * FINES						
			EVA	POR	ATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	Υ	INFORMATION	1			
EV	AP / OR	VR FAMILY	E	EVAP	ORATIVE	E STD CATE	GORY	RY EVAP EMISSION STD VEHICLE CLASS				S	SPECIAL FEATURES		
	KVVXR0	142EV6			LEV 3	OPTION2			LDT2			*			
					E	EMISSION CI	REDIT	ΓINFO	ORMATION						
	REDIT F	OX FLEET AVE OR EXTENDE RRANTY		N		REDIT FOR N ZERO-EVAP	ON-P	ZEV	NMOG C	F	REDIT FOR DOF	3	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N				N					N		N		
					NMOG	AND FLEET	AVE	RAGI	INFORMA	T	TION				
NMO0 RAF	NMOG/NMHC				0-375	'50 LVW) LD'		NMOG+NOX FLEET STO LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		1	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)				
*	*	1.10			*	0	.072				0.083		*		

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.



Executive Order: A-018-0213

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 fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c)(3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV 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).

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

----

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



Executive Order: A-018-0213

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 3 of 4

## **ATTACHMENT**

### EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAU91	EMISSION 2	TANDARDS	AND CER	HEICA HON I	LEVELS (FIF	, HWFEI, 5	0°F, 20°F)	
	CH4: mothan	o: NIMOC: n	on CH4 ora	anio agg: HC:	hudroorhon:	NIMHC: non	CHARC: C	· O: 001

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**

		NMOG (g/i		C (g/i			Ox mi)		HCHO PM (mg/mi) (g/n		
1		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	* .	*	*	*
FTP@UL	GASOLINE- LEV3 E10	0.0180	0.070	0.39	1.7	*	*	*	4	0.002	0.003
50°F @4K	GASOLINE- LEV3 E10	0.021	0.140	0.09	1.7	*	*	*	16		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FOEL TIPE	CERT		CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-LEV3 E10	0.0057	0.070			
20°F @ 50K	COLD CO E10 PREMIUM GASOLINE (TIER3)			0.33	12.5	

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03	3	COMPOSITE		
	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)
@ 4K	@ 4K *	CERT	*	*		*	*			
		STD	*	*		*	*		со	
		CERT	*	*	2.7	*	*	0.014	0.47	*
@ UL	GASOLINE- LEV3 E10 PREM	STD	*	*	6	*	*	0.090	4.2	*
		BIN						0.090		

# WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		WHOLE \						
EVAPORATIVE FAMILY		3DHS (g/test) @ UL			2Di	HS (g/test) (	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
KVVXR0142EV6	GASOLINE- LEV3 E10 PREM	0.1799	0.400	*	0.1710	0.400	*	0.001	0.05

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

				FUEL ONLY EVAP & CANISTER BLEED								
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		
KVVXR0142EV6	GASOLINE- TIER3 E10 PREM	0.109	0.20	GASOLINE- LEV3 E10 PREM	*	*	*	*	0.0077	0.020		



Executive Order: A-018-0213

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

Page 4 of 4

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
KVVXR0142EV6	KVVXR0142EV6-001	*	0.02						

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; 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; FFH: fuel fired heater; 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; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle

## 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD
AOTAO	XC40 T5 AWD	LDT2	2.0	SA8	KVVXR0142EV6	1	P