		Executive Order: A-314-0288
California Environmental Protection Agency	KIA MOTORS	New Passenger Cars, Light-Duty Trucks and
Air Pessurasa Pasad	CORPORATION	Medium-Duty Vehicles
🕬 Air Resources Board		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	UP II	NFO	RMATION	N						
MODE YEAR					VEHICLE CLASS(ES)				FUI	FUEL CATEGORY				FUEL TYPE		
2018 JKMXV02.043T						PC				PLUG-IN HYBRID ELECTRIC VEHICLE				GASOLINE		
1	USEFUL	LIFE	(miles)		VE	HICLE EMISS	ON (	CAT	EGORY		IN	TERIM / IN	TE	RMEDIA	E IN-USE STD	
EXH	/ORVR		EVAP			FTP		S	SFTP			FTP		SFTP		
15	0000		150000		LEV3	SULEV30	LEV	3	COMPOSI	TE		*			*	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS									OE	BD S	ΤΑΤΙ	JS		ENGINE	DISPLACEMENT (L)	
1 WR-HO2S, HO2S, WU-TWC, TWC, EGR, EGRC, DFI									FULL			*	1			
*				*					PARTIAL	-	,	*		, ,	2.0	
*	* PARTIAL WIT FINES								/ITH	AL	L MODELS					
			EV	APORA	TIVE 8	REFUELING	(EVA	AP/C	ORVR) FA	MILY	/ INF	ORMATION	1			
EVA	P / ORV	R FAN	AILY	EVAPO	RATIV	E STD CATE	GOR	Y		EMI		N STD ASS		SPECIA	L FEATURES	
J	KMXR01	25430	3		:	LEV 2			F	PC				HCT		
				·		EMISSION CR	REDI	T IN	FORMATI	ION						
	A	LLOW	ANCE FC	RTEST	GRO	UP			OG CRED			NMOG CF			OPTIONAL EXH. STD FOR WORK	
BASE	ELINE P	ZEV	AT	PZEV		TZEV		NON-PZEV ZERO-EVAP			U D			TRUCKS		
* *						ALL MODELS		N .				N		N		
					NMO	G AND FLEET	AVE	ERA	GE INFOF	RMA	TION					
NMOG RAF	CH4 RAF	NMC	FTP G/NMHC RATIO	HCHO/ RA	/NMHC TIO	PC+LDT (		3750 LVW)		NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi		) MDV (1		NOX FLEET STD (10,001-14,000 /WR) (g/mi)		
*	*		1.10		*	0	.079	79 0.092 *				*				
		L		L												

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

OB Air Resources Board

### 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: Evaporative family JKMXR012543G is certified pursuant to 13 CCR Section 1976(b)(1)(G)3 and deemed to comply with the requirements of 13 CCR Section 1976(b)(1)(G)1 ["LEV III evaporative requirements"].

## BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models has been determined to have five deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of \$75 per vehicle for the third through fifth deficiencies for each vehicle in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2018 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$37,500 per vehicle pursuant to HSC Section 43154.

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 day of September 2017.

Annette Hebert, Chief Èmissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency

FUEL TYPE

OB Air Resources Board

KIA MOTORS CORPORATION Executive Order: A-314-0288 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

# ATTACHMENT

## EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS 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

10 Jan 1 Jan 1												
· · · · · ·			S+NOx mi)	CO (g/mi)		1	NOx (g/mi)		HO /mi)	PM (g/mi)		
2.0		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K	*	*	*	*	*	*	*	*	*	*	*.	
FTP@UL	GASOLINE- LEV3 E10	1 0 014	0.030	0.0	1.0	*	*	*	4	*	0.01	
50°F @4K	GASOLINE- LEV3 E10	1 0 036	0.060	0.3	1.0	*	*	*	8			
	-					NN	IOG+NC	Dx (g/mi)	CO (g/mi)			
	FUEL TYPE			E		CE	CERT		CERT		STD	
HWFET @	50K	*						*			с. 4 — Эл	
HWFET @	UL	GASOLINE-LEV3 E10 GASOLINE-COLD CO LOW OCTANE						0.030			1.11	
20°F @ 5	0K							-	0.	6	10.0	

#### **US06** SC03 COMPOSITE FUEL TYPE NMOG+NOx CO PM NMOG+NOx CO **NMOG+NOx** CO PM (g/mi) (g/mi)(mg/mi) (g/mi) (g/mi) (g/mi) (g/mi) (mg/mi) \* \* CERT \* \* @4K \* STD \* \* \* \* CERT \* \* \* \* \* 0.009 \* 0.2 GASOLINE-@ UL STD 4 + \* 0.097 4.2 LEV3 E10 BIN 0.030 WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

WHOLE VEHICLE EVAPORATIVE TESTING **EVAPORATIVE** RL (g/mi) @ UL FUEL TYPE 3DHS (g/test) @ UL 2DHS (g/test) @ UL FAMILY CERT STD FEL CERT STD FEL CERT STD GASOLINE -0.30 \* \* JKMXR012543G 0.35 0.28 0.35 0.01 0.05 CA PHASE 2 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 R (g/test)		2DHS R (g/test)		BLEED CANISTER TEST (g/test) @ 4K	
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD
JKMXR012543G	GASOLINE - TIER 2 UNLEADED	0.02	0.20	GASOLINE - CA PHASE 2	0.00	0.0	0.01	0.0	*	*

California Environmental Protection Agency	KIA MOTORS CORPORATION	Executive Order: A-314-0288 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:											

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; 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: semiautomatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS; automated manual-selectable transmission; OT; other transmission

# 2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
KIA	OPTIMA PLUG-IN HYBRID	PC	2.0	AM6	JKMXR012543G	1	\$	TZEV