

HYUNDAI MOTOR COMPANY

Executive Order: A-254-0401

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

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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 GROUP INFORMATION													
MODEL YEAR TEST GROUP				VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
201	9 KH	YXV02.0LF5	PC DEDI				SINGLE FUEL HICLE		GASOLINE				
	USEFUL	. LIFE (miles)		VEH	VEHICLE EMISSION CATEGORY			GORY	INTERIM / IN	TERI	RMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP SI			TP	FTP		SFTP			
150000 150000				LEV3	ULEV70	EV70 LEV 3 COM			NMOG+NOX AN	D Ph	PM PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD S	TATUS	ENGINE DISPLACEMENT (L)			
1	WR-HO2S, HO2S, WU-TWC, TWC, DFI							FULL	*	1			
*			*				F	PARTIAL	ALL MODELS	11	2.0		
*	*							ARTIAL WITH * FINES *]		
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EV	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	KHYXR0133LFG LEV 3 OF						PC			HCT			
					EMISSION CI	REDI	TINF	ORMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-I ZERO-EVAP						ZEV	NMOG CREDIT FOR DOP			OPTIONAL EXH. STD FOR WORK TRUCKS		
	N N							n n					
				NMOG	AND FLEET	AVE	RAG	E INFORMA	TION				
NMO0 RAF	CH4 RAF					0-375					, , , , , , , , , , , , , , , , , , , ,		
*	*	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. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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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 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

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Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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							A	TTAC	НМ	ENT	•						
	EXH	IAUS	TAN	D EV	APOF	ATIVE	EMIS	SION	STAI	NDARE	S ANI	CERT	FICA	TION	LEVELS	3	
		EX	HAUST	EMIS:	SION S	TANDA	RDS A	ND CER	TIFIC	ATION L	EVELS	(FTP, HW	FET, 5	0°F, 20°	°F)		
	FL	FUEL TYPE		monox adjustr ORVR	ride; No ment fa [g HC	Ox: oxid ictor; 20 /gallon c	es of nit HS/3DH dispense	rogen; H HS [g HC ed]: on-b	CHO: test]:	formalde 2/3 days efueling	ehyde; F s diurnal vapor re	bon; NMH M: particu +hot-soak covery; g: ure; SFTF	ılate ma ; RL [g gram; ı	atter; RA HC/mi]: mg: milli	AF: reacting ligram; mi	vity oss;	
					NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)			PM (g/mi)		
			1	CER		STD	CERT	-	D	CERT	STD	_	CERT S		CERT S		
FTP@5	0K	*				*	*	*		*	*	*		*	*	*	
FTP@L	II GZ	ASOLI ER3		0.03	4 (0.070	0.7	1.	7	*	*	*		4	0.000	0.003	
EDOE WAR		GASOLINE- TIER3 E10		0.04	4 0	.140	0.8	1.	7	*	*			16			
					FU	EL TYP	F			NMOG+NO					CO (g/mi)	
		_	•							CE	RT	STD		CERT		STD	
HWFET @ 50K						*			,	*							
HWFE	T@UL			GA	SOLIN	E-TIE	R3 E10			0.0	020	0.070					
20°F	@ 50K	(COLD C	0 E10	REGU	LAR G	ASOLINI	E (TIE	R3)		1			2.2		10.0	
				SFTP	EXHAL	JST EM	ISSION	STAND	ARDS	AND C	ERTIFIC	ATION LE	VELS				
						ı	JS06				SC03			CO	IPOSITE		
	FUEL T				MOG+NOx (g/mi)		CO PN (g/mi) (mg/i				NMOG+NOx (g/mi)			G+NOx mi)	CO (g/mi)	PM (mg/mi)	
@ 4K	4K *		CER	T +		*			4.*		*						
					*		*			1	•	*					
		ASOLINE- STIER3 E10 BII		CERT * *		-	1	1 *		*	0.	0.043		*			
@ UL)	*		*		6			* 0.09		090	4.2	+	
													0.	070			
		W	HOLE	VEHIC	LE EV	APORA	TIVE E	MISSION	STA	NDARD	SANDO	ERTIFIC	ATION	LEVEL	S		
						WI	HOLE V	EHICLE	EVAF	PORATI	/E TEST	ING					
	ORATIV	VE	FUEL TYPE		YPE 3DHS (g/test) @ UL					2DHS	(g/test)	@ UL		RL	RL (g/mi) @ Ul		
					CEF	CERT S		TD FEL C		ERT STD		FEL		CERT		STD	
KHYXR0133LFG		FG		OLINE- 3 E10 0.248 0.			300	*	0.3	0.300		*	0		0.05		
(RVR /	FUEL	ONLY	/ CAN	ISTER	BLEED	EVAPO	DRATIVE	EEMI	SSION S	TANDA	RDS AND	CERT	IFICAT	ION LEV	ELS	
EVAS	ODATI	/ E	ORVR (g/gallon) @ UL								UEL ONLY EVAP						
FAMILY		VE	CRVR (g/gal			rganon, w oc		FUEL TYPE		3DHS RIG TEST (g/test) @ UL		2DHS RIG T (g/test) @				CANISTER test) @ 4K	
		F	UEL T	TYPE CERT STD		STD	C			RT STD		CERT	ST		CERT	STD	
KHYXE	0133L		ASOLI IER3		0.00	0.20	GASOLINE- LEV3 E10			*	* *				0.011	0.020	



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD							
KHYXR0133LFG	KHYXR0133LHG-TL2	0.00	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; GWWR: 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

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
HYUNDAI	TUCSON AWD	PC	2.0	SA6	KKMXR0133LFG	1	P
HYUNDAI	TUCSON FWD	PC	2.0	SA6	KKMXR0133LFG	1	P