California Environmental Protection Agency	TOYOTA MOTOR	Executive Order: A-014-0965 New Passenger Cars, Light-Duty Trucks and
Air Resources Board	CORPORATION	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	UP IN	FORMAT	ION					
MODE		TEST GROUP VEHICLE CLASS(ES)					FUEL CATEGORY			ORY	FUEL TYPE		
2018	8 JTYXV03.5B6C PC						DEDICATED SINGLE FUEL VEHICLE			Gi	ASOLINE		
USEFUL LIFE (miles) VEHICLE EMIS						ON C	ATEGOR	Y II	INTI	ERIM / INT	ERMEDIA	TE IN-USE STD	
EXH/ORVR EVAP				FTP		SFTP			FTP		SFTP		
120000 150000 LEV2					EV2 ULEV		EV 2 SFI STANDARI			*.		*	
SPE	CIAL FE	ATUR		AUST EMIS	SION CONTROL	-		OBD ST	ATUS		ENGINE	DISPLACEMENT (L)	
1 SFI, 2WR-H02S, 2TWC, 2H02S, TWC							FUL	L		*			
*	*						PART	IAL	ALL MODELS		3.5		
*	*						PARTIAL		*				
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INFO	RMATION			
EVA	P / ORV	R FAN	AILY	EVAPORATI	VE STD CATEG	ORY	,	AP EMIS			SPECIA	L FEATURES	
· J	TYXR01	15A12	2		LEV 2	V 2 PC				HCT			
					EMISSION CR	EDIT	INFORM	ATION					
	A	LLOW	ANCE FO	R TEST GRO	DUP							OPTIONAL EXH	
BASELINE PZEV AT PZEV T				TZEV	NO	NON-PZEV ZERO-EVAP DO			DO	TRUCKS			
* *					*		N			N	N N		
				NM	OG AND FLEET	AVE	RAGE INF	ORMAT	ION				
NMOG CH4 FTP RAF RAF NMOG/NMHC RATIO			PC+LDT (0	IOG+NOX FLEET STD C+LDT (0-3750 LVW) (g/mi)				VW-8500					
*	*		1.04	0.018	0.	.079			0.0	92		*	

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).

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 May 2017.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency

O Air Resources Board

FUEL TYPE

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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

	1			NM (g/i		-	O mi)		Ox mi)		HCHO (mg/mi)		P (g/i					
			Г	CERT	STD	CERT	STD	CERT	STD	CER	TS	TD	CERT	STD				
FTP@5	OKI	OLINE		0.0167	0.040	0.21	1.7	0.019	0.05	; +		8	*	*				
FTP@L		OLINE		0.0181	0.055	0.23	2.1	0.021	0.07	*	1	.1	*	0.01				
50°F @	4K	*		*	*	*	*	*	*	*		*		- 1				
									NOx (g/mi)		(:O (g/mi)					
					FUEL TYP	'E		CE	RT	STD		CERT		STD				
HWFET @ 50K		GASOLI	NE - CA	PHASE 2		0.017 0.07												
HWFE	T@UL			GASOLI	NE - CA	PHASE 2		0.0	19	0.09								
20°F@50K GASOLINE-COLD CO			OLD CO	HIGH OCT	ANE						0.56 1							
			5	FTP EXH	AUSTEN	ISSION S	TANDARD	S AND CE	RTIFIC	ATIONL	EVELS							
				1		US06		1	SC03			CON	POSITE					
	FUEL 1	YPE		NMHC (g/i		CO (g/mi)	PM (mg/mi)	NMHC (g/r		CO (g/mi)	NMOG (g/r		CO (g/mi)	PM (mg/mi				
				GASOLINE - CE CA PHASE 2				0.0	027	0.61		0.0	33	0.04			•	
-		0.	14			8.0		0.1	20	2.7								
		GASOLINE - CA PHASE 2		-		*	*			*	* 0.03		*	*				
@ UL						*	*			*		0.097		*				
								1			0.1	00						
		WH	OLE V	EHICLE	EVAPORA	TIVE EMI	SSION ST	ANDARDS	SAND	CERTIFIC	ATION L	EVELS	3					
		T			W	HOLE VEH	HICLE EVA	PORATIV	E TES	TING								

EVAPORATIVE FAMILY	FUEL TYPE	3	BDHS (g/	(test) @ L	IL	2D	HS (g/test)	@ UL		RL (g/mi) @ UL			
		CER	RT S	TD	FEL	CERT	STD	FEL	CE	RT	STD		
JTYXR0115A12	GASOLINE TIER 2 UNLEADED	0.1	58 0	.50	*	*	0.65	*	0.	005	0.05		
ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPOR	ATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS		
						FUEL C	ONLY EVA	P & CANIS	TER BLE	ED			
EVAPORATIVE	ORVR (g/gallon) @ UL			FUEL TYPE			IG TEST	2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4			
	FUEL TYPE	CERT	STD			CERT	STD	CERT	STD	CERT	STD		
JTYXR0115A12	GASOLINE - TIER 2 UNLEADED	0.040	0.20	*		*	*	*	*	*	*		

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LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 60 8500#ALVW; MDV: medium-duty vehicle; MDV4: M duty passenger vehicle; HDV: heavy-duty vehicle; E emission limit; GVWR: gross vehicle weight rating; L ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-e TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing of catalyst; NAC: NOx adsorption catalyst; SCR-U or S NH3OC: ammonia oxidation catalyst; CTOX/PTOX: filter for spark-ignited engine; HO2S/O2S: heated/ox NOXS: NOx sensor; PMS: PM sensor; RDQS: reduc EGRC: EGR cooler; AIR/AIRE: secondary air injecti fuel injection; DFI/IFI: direct/indirect fuel injection; TO full/partial/partial with fines on-board diagnostic; DO prefix 2: parallel; (2) suffix: series; CNG/LNG: comp ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gas	01-8500#GVWR,3751-5750 DV 8501-10000#GVWR; ME CS: emission control system VW: loaded vehicle weight; mission vehicle; PZEV: parti atalyst; ADSTWC: adsorbing CRC/SCR-N or SCRC-NH3 continuous/periodic trap oxid cygen sensor; WR-HO2S or ctant quality sensor; NH3S: a on (belt driven)/(electric drive C/SC: turbo/super charger; C R: direct ozone reducing; HC ressed/liquefied natural gas; oline) fuel; A: automatic (wit ansmission; SCV: selectable	DV5: MDV 10001-14000#GVWR; MDPV: medium- n; CERT: certification; STD: standard; FEL: family ALVW: adjusted LVW; LEV: low emission vehicle; ial ZEV; AT PZEV: advanced technology PZEV; g TWC; HAC: HC adsorbing catalyst; WU: warm-up : selective catalytic reduction-urea/ammonia; dizer; DPF: diesel particulate filter (active); GPF: PM AFS: wide range/linear/heated air-fuel ratio sensor; ammonia sensor; EGR: exhaust gas recirculation; en); PAIR: pulsed AIR; SFI/MFI: sequential/multiport CAC: charge air cooler; FFH: fuel fired heater; F/P/\$: CT: hydrocarbon trap; BCAN: bleed carbon canister; LPG: liquefied petroleum gas; E85: "85%" ethanol h lockup); M: manual transmission; AM: automated

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
LEXUS	ES 350	PC	3.5	SA6	JTYXR0115A12	1	P	*
TOYOTA	AVALON	PC	3.5	SA6	JTYXR0115A12	1	P	*