### California Environmental Protection Agency

### **OB** Air Resources Board

ASTON MARTIN LAGONDA LIMITED Executive Order: A-098-0054

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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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 GROU	P IN	FORMATI	ION					
MODE		TEST GROUP VEHICLE			CLE CLASS(ES) FUEL CATEGORY			ORY	FUEL TYPE				
2017	17 HASXV05.2AM5			PC DEDICA				SING	LE FUEL	G.	GASOLINE		
USEFUL LIFE (miles) VEHICLE					ICLE EMISSIC	ON C	ATEGOR	Y	INT	ERIM / INT	ERMEDIA	TE IN-USE STD	
	I/ORVR		EVAP	4	FTP		SFTP			FTP		SFTP	
150000 150000		CERTI	LEV OPTION FYING TO 3 ULEV OG+NOX	IG TO LEV 2 SFTP LEV STANDARD		- 11	*		*		,	*	
SPE	CIAL F	EATUR		AUST EMISSI	ON CONTROL			OBD ST	ATUS	3	ENGINE	DISPLACEMENT (L)	
1	2WU-TWC, 2TWC, 2WR-HO2S, 2HO2S, 2TC, 2CAC, SFI, AIR					,	FUL	L	. *				
*	*						PART	IAL	ALL MODELS 5.2			5.2	
*	* *						PARTIAL FINE			•			
			EV	APORATIVE &	REFUELING (	EVA	P/ORVR)	FAMILY	INFO	RMATION			
EVA	P / ORV	/R FAM	MILY	EVAPORATIV	E STD CATEG	ORY		AP EMIS			SPECIA	L FEATURES	
1	HASXRO:	160P1	Y	I	EV 2			PC				*	
					EMISSION CR	EDIT	INFORM	ATION					
	A	LLOW	ANCE FO	R TEST GROU	IP	IN	IMOG CR	EDIT FO	R	NMOG CRE	EDIT FOR	OPTIONAL EXH	
BASELINE PZEV AT PZEV TZE				TZEV					DO	SID FOR WO			
* * *					*		N 1				N		
				NMO	AND FLEET	AVE	RAGE INF	ORMAT	ION				
NMOG RAF	CH4 RAF			NMOG+NOX FLEET PC+LDT (0-3750 L\ (g/mi)		O LVW) LDT (		NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)					
*	*		1.04	*	0.	125			0.	125		*	

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.

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#### 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:

The listed vehicle models have been certified on the condition that the manufacturer provide all the on-board diagnostic data required by 13 CCR Section 1968.2(h)(1) within 60 days from the date of the Executive Order. Failure to submit the required demonstration data by the specified date, or failure of the submitted demonstration data to show compliance with the test procedures, shall be cause for the Air Resources Board to revoke this Executive Order and vehicles sold under the revoked conditional certification shall be deemed uncertified.

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 27 day of October 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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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

**FUEL TYPE** 

		NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.0428	0.125	0.52	2.1	*	*	*	11	*	0.01
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.092	0.250	0.76	2.1	*	*	*	16		

(1)位于特殊的(B)	FUEL TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.0116	0.125			
20°F @ 50K	GASOLINE - TIER 2 UNLEADED			2.58	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

14.00				US06		SC03	3	COMPOSITE			
	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	
@ 4K	GASOLINE - TIER 2 UNLEADED	CERT	0.099	3.19		0.06	0.48				
		STD	0.14	8.0		0.20	2.7		As THE	(AC)	
		CERT	*	*	*	*	*	*	*	*	
@ UL	*	STD	*	*	*	*	*	*	*	*	
		BIN		100		W. T.		*			

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE	RL (g/mi) @ UL					
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL					2DHS (g/test) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HASXR0160P1Y	GASOLINE - TIER 2 UNLEADED	0.39	0.50	*	0.49	0.65	*	0.00	0.05

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# 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			
HASXR0160P1Y	GASOLINE - TIER 2 UNLEADED	0.01	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

### 2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
ASTON MARTIN	DB11	PC	5.2	SA8	HASXR0160P1Y	1	P	*