## California Environmental Protection Agency

# **OP** Air Resources Board

FORD MOTOR COMPANY

Executive Order: A-010-1902

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 GROUI	INFO	RMATION					
MODEL YEAR	TEST	ROU	Р	VEHICLI	E CLASS(ES)		FUEL C	ATEG	FUEL TYPE			
2016	GFMXD0	6.77	1D	MDV5			DEDICATED VEH	SING	DIESEL			
USE	FUL LIFE	(mile	s)	VEHIC	CLE EMISSIO	N CATE	EGORY	INT	ERIM / INT	ERMEDIA	TE IN-USE STD	
EXH/ORVR EVAP				FTP			SFTP .		FTP	SFTP		
120000 *				LEV2	ULEV *					•		
SPECIA	L FEATU		EXHAUS SYSTEMS		N CONTROL		OBD ST	TATUS	3	ENGINE	DISPLACEMENT (L)	
1 70	, CAC,	EGR, EGI		TOX, SCRC,		FULL *						
*			*				PARTIAL	ALL MODELS		6.7		
*			*			PA	RTIAL WITH *					
			EVAPO	RATIVE & F	EFUELING (E	VAP/O	RVR) FAMILY	INFO	RMATION		**	
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	*			*			*			*		
				E	MISSION CRE	DIT IN	FORMATION					
										EDIT FOR STD FOR W		
BASELINE PZEV AT PZEV					TZEV	NON-F	ON-PZEV ZERO-EVAP		DOR		TRUCKS	
* *					*		N		N		N	
				NMOG	AND FLEET A	VERA	GE INFORMA	TION				
NMOG RA	RAF CH4 RAF FTP NMOG/N			I HCHO/NMHC E		NMOG+NO PC+LDT		50 LVW)	NMOG+NOX FLEET STI LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)			
*	*	* *			*			*		*		

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.

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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 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 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

**OD** Air Resources Board

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							A'	TTAC	HM	ENT							
	EXH				-	THE RESERVE			-	The same of the sa			_		LEVELS		
	FU	FUEL TYPE		CH4: monoxid djustm	ethande; NO ent fa	e; NMO Ox: oxid octor; 2D (gallon o	G: non-( les of niti )HS/3DH dispense	CH4 orga rogen; H IS [g HC d]: on-bo	anic ga CHO: /test]: oard re	s; HC: I formalde 2/3 days	nydrocai ehyde; F s diurnal vapor re	rbon; NMI- PM: particu	IC: nulate	on-CH4 I matter, R [g HC/mi] n; ma; mi	IC; CO: ca AF: reactive  : running  -	rity oss:	
				NMHC (g/mi)			CO (g/mi)			N(g/		HCHC (mg/m			PM (g/mi)		
				CERT		STD	CERT	STI	D	CERT	STD	CER	Т	STD	CERT	STD	
FTP@50	OK	*		*		*	*	*		*	*	*	*		*	*	
FTP@U	JL DIE	SEL-I	EPA	0.043	0	.167	0.7	7.:	3	0.3	0.4	7.3	21		0.01	0.06	
50°F @4	4K	*		*		*	.*	*		*	*	*		*			
Nagar.	100				ELI	EL TYP	E				NOx (	g/mi)			CO (g/mi)		
	101, -				FUI	EL 117	_			CERT		STD	STD		T	STD	
HWFET @ 50K				*						*		*	*				
HWFET @ UL				DIESEL-EPA						0.068		0.8	0.8				
20°F @ 50K				*						3. ·		*			*		
			S	FTP E	XHAL	JST EM	ISSION	STAND	ARDS	AND C	ERTIFIC	ATION L	EVE	S			
				US06					SC03				COMPOSITE				
	FUEL 1	TYPE		NMHC+NOx (g/mi)		CO PI (g/mi) (mg/			NMHC+NO (g/mi)		CO (g/mi)	1	(g/mi)	(g/mi)	PM (mg/mi		
2 114		* CE			*				Utina.	1	t	*	110			A STATE OF THE STA	
@ 4K					*							*		47 110		1 43 47	
		* ST		T *		* *		*			*		*	*	*		
@ UL	*			D *		* *		*			*	*		*	*		
										- 1	45.0	1		*			
	,	WH	OLE V	EHICL	E EV							CERTIFIC	ATIC	N LEVE	_S		
			WHOLE VEHICLE EVAP					ORATI	VE TEST	ring	RL (g/mi) @ UL						
FAMILY FL		UEL T	L TYPE 3DHS (			/test) @ UL			2DHS (g/test)		@ UL		RL (g/m		ii) @ UL		
					CERT S		TD FEL		CE	ERT STD		FE		CEF	RT	STD	
*			*	* *			* *		-	* *		San 1		*		*	
C	RVR / F	UEL (	ONLY/	CANIS	STER	BLEED	EVAPO	PRATIVI	EEMIS	SION S	TANDA	RDS AND	CE	RTIFICA	TION LEVI	ELS	
EVAPORATIVE FAMILY		E	ORVR (g/gallon) @ UL				3		3D	UEL ONLY EVAI OHS RIG TEST (g/test) @ UL		2DHS RIC (g/test)		TEST	BLEED C	BLEED CANISTER EST (g/test) @ 4K	
			FUEL TYPE		CERT STD		FUEL TYPE			Jitest) (	W OL	(g/te	21/6	, OL	1 = 31 (g/t		
		FI	JEL TY	PEIC	ERT	STD			CE	RT	STD	CERT		STD	CERT	STD	

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: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: \_DT<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; 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 sparkignited 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%"qasoline) 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

	2016 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE					
FORD	F350 2WD BED DELETE DIESEL	MDV5	6.7	SA6	*	1	P	*					
FORD	F350 2WD DIESEL	MDV5	6.7	SA6	*	1	P	*					
FORD	F350 4WD BED DELETE DIESEL	MDV5	6.7	SA6	*	1	P	*					
FORD	F350 4WD DIESEL	MDV5	6.7	SA6	*	1	P	*					
FORD	F450 4X4 PICKUP DIESEL	MDV5	6.7	SA6	*	1	P	*					