FORD MOTOR COMPANY



Pursuant to the authority vested in California Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE ¹	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES ³	DIAGNOSTIC ⁶					
2023	PFMXH06.7	PFMXH06.7C45 6.7		Diesel	Diesel	MHDD	TC, DDI, CAC, EGR, ECM, PTOX, DOC, SCR-U, AMOX	OBD(P)					
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5			ADDITIONAL IDLE EMISSIONS CONTROL 5										
	30g	N/A											
ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)													
6.7				See attached	for engine mod	dels and rat	ings						
L=liter; hp: CNG/LN L/M/H F ECS=er catalyst; D TBI=throttle charger; C module; EI	* =not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; L=liter; hp=horsepower; kw=kilowatt; hr=hour; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; L=liter; hp=horsepower; kw=kilowatt; hr=hour; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; L=liter; hp=horsepower; kw=kilowatt; hr=hour; L=liter; hp=horsepower; kw=kilowatt; hr=hour; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; L=liter; hp=horsepower; kw=kilowatt; hr=hour; BCGS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction — urea / — ammonia; WU (prefix)=warm-up catalyst; DF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke pulf limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; AMOX=Ammonia Oxidation Catalyst; NOXS=NOx sensor; 2 (prefix)=parallel; (2) (suffix)=in series;												
13 CCR 19	56.8(a)(6)(D); Exem	pt=exemp	oted per 13 CCR 195	6.8(a)(6)(B) or for CNG/LNG fuel s 71); OBD (F) / (P) / (\$)= full / partial	systems; N/A=not a	applicable (e.g.,		nauve metiloù (pei					

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the SET and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, SET and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		СО		PM		нсно	
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	*
CERT	0.09	0.000	0.13	0.17	*	*	0.9	0.02	0.001	0.003	*	*
NTE	0.21		0.30		*		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: The manufacturer has demonstrated compliance with the Greenhouse Gas Emission Standards as specified in Title 13 CCR 1956.8 and the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Diesel-Engines and Vehicles" (HDDE Test Procedures) adopted December 12, 2002, as last amended September 9, 2021.

ln g/bhp-hr		CO ₂	011	N₂O		
	FTP	SET	CH₄			
STD	545	*	0.10	0.10		
-CL	539	*	*	*		
EL	555	*	0.10	0.10		
CERT	526	*	0.03	0.08		

BE IT FURTHER RESOLVED: Certification to the FEL(s) / FCL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) / FCL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.



FORD MOTOR COMPANY

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BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971.1 (on-board diagnostic, full or partial compliance) and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: That the manufacturer has elected to include engine models in this engine family which are identified for "emergency vehicle use only". These "emergency vehicle use only" engines are exempt from requirements imposed pursuant to California law and the regulations adopted pursuant thereto for motor vehicle pollution control devices per California Vehicle Code Section 27156.2. The manufacturer must clearly label these engines for "emergency vehicle use only" on the engines' emission control label.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted December 12, 2002, as last amended September 9, 2021, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this 3/st day of January 2023.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Holin U. Lang

Attachment: Engine Models EO #: A-010-2461 Family: PFMXH06.7C45 Attachment Last Revised: 1/24/2023

	C. I.	T	C C -	D'anterior de	Displacement -	D. J. D.	Peak Power -	Peak Power -	Peak Power -	Peak Power - Fu		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -	000	CUC	6	Notes
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
																			TC,DFI,CAC,EGR
F650/750	PTBCYENE	N/A	V8	6.7	Liters	270	horsepower	2200	236.5	lb/hr	800	lb-ft	1600	164.5	lb/hr	Partial	Vocational	al N/A	,EGRC,OC,PTOX SCRC,NOXS,RD
																			QS,NH3OC
																			TC,DFI,CAC,EGR
																			,EGRC,OC,PTOX
F650/750	PTBCYENF	N/A	V8	6.7	Liters	270	horsepower	2200	236.5	lb/hr	800	lb-ft	1600	164.5	lb/hr	Partial	Vocational	N/A	SCRC,NOXS,RD
																			QS,NH3OC
																			TC,DFI,CAC,EGR
F650/750	PTBCYENG	N/A	V8	6.7	Liters	270	horsepower	2200	236.5	lb/hr	800	lb-ft	1600	164.5	lb/hr	Partial	Vocational	Emergency	,EGRC,OC,PTOX
																			SCRC,NOXS,RD QS,NH3OC
																			TC,DFI,CAC,EGR
																			,EGRC,OC,PTOX
F650/750	PTBCYENH	N/A	V8	6.7	Liters	270	horsepower	2200	236.5	lb/hr	800	lb-ft	1600	164.5	lb/hr	Partial	Vocational	Emergency	SCRC,NOXS,RD
																			QS,NH3OC
																			TC,DFI,CAC,EGR
F650/750	PTBCYFNE	N/A	v8	6.7	Liters	300	horsepower	2175	236.5	lb/hr	825	lb-ft	1600	164.5	lb/hr	Partial	Vocational	N/A	,EGRC,OC,PTOX
1 030/ 730	TIBETTIVE	17/2	1	0.7	Litters	300	Погзерожег	21/3	230.5	15/111	025	15 10	1000	104.5	15/111	l' di tidi	Vocational	ai IN/A	SCRC,NOXS,RD
		-																	QS,NH3OC
																			TC,DFI,CAC,EGR
F650/750	PTBCYFNF	N/A	V8	6.7	Liters	300	horsepower	2175	236.5	lb/hr	825	lb-ft	1600	164.5	lb/hr	Partial	Vocational	N/A	,EGRC,OC,PTOX SCRC,NOXS,RD
																			QS,NH3OC
																			TC,DFI,CAC,EGR
FCF0/7F0	DEDCYENC			6.7	Liters	300		er 2175	236.5	16./6.	825	11. 64	1600 16	4645	164.5 lb/hr	Partial	Vocational	F	,EGRC,OC,PTOX
F650/750	PTBCYFNG	N/A	V8				horsepower			lb/hr	825	lb-ft		164.5				Emergency	SCRC,NOXS,RD
																			QS,NH3OC
		ı N/A			Liters	300		2175			825	lb-ft	1600	164.5	lb/hr	Partial	Vocational		TC,DFI,CAC,EGR
F650/750	PTBCYFNH		V8	6.7			horsepower		236.5	lb/hr								Emergency	,EGRC,OC,PTOX
																			SCRC,NOXS,RD QS,NH3OC
		_																	TC,DFI,CAC,EGR
																			,EGRC,OC,PTOX
F650/750	PTBCYGNE	N/A	V8	6.7	Liters	330	horsepower	2200	236.5	lb/hr	850	lb-ft	1800	164.5	lb/hr	Partial	Vocational	N/A	SCRC,NOXS,RD
																			QS,NH3OC
															TC,DFI,CAC,EGR				
F650/750	PTBCYGNF	N/A	V8	6.7	Liters	330	horsepower	2200	236.5	lb/hr	850	lb-ft	1800	164.5	lb/hr	Partial	Vocational	N/A	,EGRC,OC,PTOX
1 030/730	FIBCIGINI	11/7	V 6	0.7	Litters	330	norsepower	2200	230.5		850	10-10	1800	104.5	10/111	raitiai	Vocational	IN/A	SCRC,NOXS,RD
																			QS,NH3OC
																			TC,DFI,CAC,EGR
F650/750	PTBCYGNG	N/A	V8	6.7	Liters	330	horsepower	2200	236.5	lb/hr	850	lb-ft	1800	164.5	lb/hr	Partial	Vocational	Emergency	,EGRC,OC,PTOX SCRC,NOXS,RD
																			QS,NH3OC
		_					+				+		_			+			TC,DFI,CAC,EGR
		l			1														,EGRC,OC,PTOX
F650/750	PTBCYGNH	N/A	V8	6.7	Liters	330	horsepower	2200	236.5	lb/hr	850	lb-ft	1800	164.5	lb/hr	Partial	Vocational	Emergency	SCRC,NOXS,RD
																			QS,NH3OC