

FORD MOTOR COMPANY

EXECUTIVE ORDER A-010-2285-2 New Engines for Diesel or Incomplete **Medium-Duty Vehicles** Page 1 of 2

Pursuant to the authority vested in the 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 diesel or incomplete medium-duty vehicles with a manufacturer's GVWR from 10,001 to 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	STD CATEGORY ²	FUEL TYPE ¹	& TEST PROCEDURE	ENGINE SIZES (L)	ECS & SPECIAL FEATURE	S ³	OBD COMPLIANCE			
2021	021 MFMXE07.3BWU ULEV Gasoline Otto 7.3 TWC, SFI, HO2S, WR-HO										
	ENGINE (L)	OBD COMPLIANCE									
	7.3	OBD(F)									
	*										

STANDARDS

EMICCION

Following are: 1) the FTP exhaust emission standards or family emission limit(s) as applicable under 13 CCR 1956.8; the SET and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, 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 dual- and flexible-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel.)

	NMHC		NOx		NMHC+NOx		С	0	P	М	нсно		
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*	
CERT	0.12	*	0.07	*	*	*	11.2	*	0.01	*	0.001	*	
NTE	*		*		*		*		,	*	*		

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=supplemental emissions testing; NTE=Not-to-Exceed emission limit; 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 Otto Cycle Engines and Vehicles" (HDOE Test Procedures) adopted December 27, 2000, as last amended December 19, 2018.

011				
CH₄	N₂O			
0.10	0.10			
*	*			
0.10	0.10			
0.06	0.03			
	0.10 * 0.10			

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; STD = standard or emission test cap; FEL=family emission limit; =family certification level; CERT=certification level; CO2=carbon dioxide; CH₄=methane; N₂O=nitrous oxide: VOCATIONAL=vocational engine;

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.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 10,001 to 14,000 pounds and, therefore, shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 10,001-14,000 pounds GVWR).

enot applicable; GWWR-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:

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;

SULEV / ULEV / LEV=super ultra / ultra / low emission vehicle;

Since of the view (2) (suffix)=in series



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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 1968.2 (on-board diagnostic, full or partial compliance), and 13 CCR 2035 et seq. (emission control warranty).

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.

This Executive Order hereby supersedes Executive Order A-010-2285-1 dated December 29, 2020.

Executed on this 29th day of December 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: A-010-2285-2

Family: MFMXE07.3BWU Attachment Last Revised: 12/16/2021

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power -		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Fuel Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
E-Series	MTE4K0NA	N/A	V8	7.3	Liters	300	horsepower	3750	105.0	mm3/stroke	425	lb-ft	3250	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WF HO2S
E-Series	MTE4J0NA	N/A	V8	7.3	Liters	325	horsepower	3750	105.0	mm3/stroke	450	lb-ft	3750	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI HO2S
E-Series	MTE4K0NB	N/A	V8	7.3	Liters	300	horsepower	3750	105.0	mm3/stroke	425	lb-ft	3900	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI HO2S
E-Series	MTE4J0NB	N/A	V8	7.3	Liters	325	horsepower	3750	105.0	mm3/stroke	450	lb-ft	3750	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WF
E-Series	MTE4K0NC	N/A	V8	7.3	Liters	300	horsepower	3750	105.0	mm3/stroke	425	lb-ft	3900	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI
E-Series	MTE4J0NC	N/A	V8	7.3	Liters	325	horsepower	3750	105.0	mm3/stroke	450	lb-ft	3750	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI
Super Duty	MTFEJ0NJ	N/A	V8	7.3	Liters	335	horsepower	3750	105.0	mm3/stroke	468	lb-ft	3750	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI
Super Duty	MTFEJONK	N/A	V8	7.3	Liters	335	horsepower	3750	105.0	mm3/stroke	468	lb-ft	3750	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI
Super Duty	MTFEJONL	N/A	V8	7.3	Liters	335	horsepower	3750	105.0	mm3/stroke	468	lb-ft	3750	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI
Super Duty	MTFEJONM	N/A	V8	7.3	Liters	335	horsepower	3750	105.0	mm3/stroke	468	lb-ft	3750	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WI