

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	EMISSION STD ENGINE FAMILY CATEGORY ² FUEL TYPE ¹ PROCEDURE SIZES (L) ECS & SPECIAL FEATURE						OBD COMPLIANCE		
2022	2022 NFMXE07.3BWU ULEV Gasoline Otto 7.3 TWC, SFI, HO2S, WR-H									
	ENGINE (L)	OBD COMPLIANCE								
	7.3	OBD(\$)								
	*	*								
	icable; GVWR =gross vehicl =horsepower; kw =kilowatt;	e weight rating; 13	CCR xyz=Title 13, California Cod	e of Regulations, S	ection xyz; 40 C	FR 86.abc=Title 40, Code of Federal F	Regulations,	Section 86.abc;		

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 / (2) (suffix)=in series

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		NC	Dx	NMHC+NOx		CO		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	*	*	*	6.7	*	0.002	*	0.001	*	
NTE	*		ł		*		*		,	k	*		

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

(rev: 2014-01-03)

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 using the alternate emission standards as specified in Section 1036.5(e) of the HDOE test procedures.

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g/bhp-hr	FTP	SET	CH₄	N ₂ O		
STD	627	*	0.10	0.10		
FCL	627	*	*	*		
FEL	646	*	*	*		
CERT	617	*	0.05	0.03		

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).

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).

BE IT FURTHER RESOLVED: The listed engine models is conditionally certified in accordance with 13 CCR Section 1968.2 (deficiency and fines provisions for certification of malfunction and diagnostic system) because the medium-duty on-board diagnostic (OBD II) system has been determined to have Three deficiencies, and therefore is approved subject to the manufacturer paying a fine of \$25 per engine for the third deficiency in the listed engine family that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to California Air Resources Board reports of the number of engines produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2022 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$40,725 per engine pursuant to HSC Section 43154.

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

This Executive Order hereby supersedes Executive Order A-010-2339 dated June 22, 2021.

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

Executed on this <u>26th</u> day of November 2021.

Allen Lyons, Chief Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: A-010-2339-1

2339-1

 Family:
 NFMXE07.3BWU
 Attachment Last Revised:
 11/5/2021

					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
Super Duty	NTFEJONJ	N/A	V8	7.3	Liters	350	horsepower	3900	105.0	mm3/stroke	468	lb-ft	3900	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WF HO2S
Super Duty	NTFEJONK	N/A	V8	7.3	Liters	350	horsepower	3900	105.0	mm3/stroke	468	lb-ft	3900	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WF HO2S
Super Duty	NTFEJONL	N/A	V8	7.3	Liters	350	horsepower	3900	105.0	mm3/stroke	468	lb-ft	3900	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WF HO2S
Super Duty	NTFEJONM	N/A	V8	7.3	Liters	350	horsepower	3900	105.0	mm3/stroke	468	lb-ft	3900	98	mm3/stroke	Full	Vocational	N/A	SFI, HO2S, TWC, WF HO2S
E-Series	NTE4KONA	N/A	V8	7.3	Liters	300	horsepower	3750	105.0	mm3/stroke	425	lb-ft	3250	98	mm3/stroke	Full	Vocational	New Ratings	SFI, HO2S, TWC, WF HO2S
E-Series	NTE4JONA	N/A	V8	7.3	Liters	350	horsepower	3900	105.0	mm3/stroke	468	lb-ft	3900	98	mm3/stroke	Full	Vocational	New Ratings	SFI, HO2S, TWC, WF HO2S
E-Series	NTE4KONB	N/A	V8	7.3	Liters	300	horsepower	3750	105.0	mm3/stroke	425	lb-ft	3900	98	mm3/stroke	Full	Vocational	New Ratings	SFI, HO2S, TWC, WF HO2S
E-Series	NTE4JONB	N/A	V8	7.3	Liters	350	horsepower	3900	105.0	mm3/stroke	468	lb-ft	3900	98	mm3/stroke	Full	Vocational	New Ratings	SFI, HO2S, TWC, WF HO2S
E-Series	NTE4KONC	N/A	V8	7.3	Liters	300	horsepower	3750	105.0	mm3/stroke	425	lb-ft	3900	98	mm3/stroke	Full	Vocational	New Ratings	SFI, HO2S, TWC, WF HO2S
E-Series	NTE4JONC	N/A	V8	7.3	Liters	350	horsepower	3900	105.0	mm3/stroke	468	lb-ft	3900	98	mm3/stroke	Full	Vocational	New Ratings	SFI, HO2S, TWC, WF HO2S