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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.

STANDARDS INTENDED

MODEL YEAR			ENGINE SIZES (L) FUEL TYPE ¹		STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES ³	DIAGNOSTIC ⁶						
2022	2 NVPTH10.8CA1		10.8	Diesel	Diesel	HHDD	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR-U, AMOX	OBD(\$)						
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5			ADDITIONAL IDLE EMISSIONS CONTROL 5											
	30g	N/A												
ENGINE (L)			ENGINE MODE	LS / CODES (rat	ed power, in	hp)							
10.8				See attachmen	t for engine mo	odels and ra	itings							
L=liter; hp= 1 CNG/LN 2 L/M/H H	=horsepower; kw =ki \G =compressed/liqu \IDD =light/medium/he	lowatt; hr efied natur eavy heavy	=hour; al gas; LPG=liquefic v-duty diesel; UB=ur	ed petroleum gas; E85 =85% ethan ban bus; HDO =heavy duty Otto;	nol fuel; MF =multi	fuel a.k.a. BF =	86.abc=Title 40, Code of Federal Regulations, \$ bi fuel; DF=dual fuel; FF=flexible fuel;							
							ive catalytic reduction – urea / ammonia; WU							

TBI=throttle body fuel injection; SFIMFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct direct dir

5 ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS =internal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD(F) / (P) / (\$)=full / partial / partial with a fine / on-board diagnostic;);

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 heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diésel" CO, SET and NTE certification compliancé may háve 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.). 4

in	NMHC		NOx		NMHC+NOx		С	0	P	М	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	0.001	0.001	0.09	0.06	*	*	0.2	0.00	0.000	0.000	*	*
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 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 April 18, 2019.

	PRIMARY INTENDED SERVICE CLASS: Tractor and Vocational											
In		CO₂	CII	N 0								
g/bhp-hr	FTP	SET	CH₄	N₂O								
STD	513	447	0.10	0.10								
FCL	518	456	*	*								
FEL	534	470	0.10	0.10								
CERT	512	454	0.02	0.07								

dybhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; FCL=family certification level; CERT=certification level; CO₂=carbon dioxide; CH₄=methane; N₂O=nitrous oxide; STD = standard or emission test cap; FEL=family emission limit; 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: 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: 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 April 18, 2019, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: The listed engine models is conditionally certified in accordance with 13 CCR Section 1971.1 (k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the heavy-duty on-board diagnostic (HD OBD) 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, effective from the start of the quarter in question, in which case all engines covered under 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.

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

Executed on this 6th day of February 2022.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: A-242-0191 Family: NVPTH10.8CA1 Attachment Last Revised: 12/24/2021

					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	GH	G Specia	Notes
D11N - 325	SWrev-00		L6	10.8	Liters	325	horsonower	1700	109	lb/hr	1205	lb-ft	1000	104	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM
D11N - 323	300160-00		LO	10.6	Liters	323	horsepower	1700	109	10/111	1203	10-10	1000	104	10/111	Fines			DOC, PTOX, SCR, AMOX
D11N - 355	SWrev-00		L6	10.8	Liters	355	horsepower	1700	118	lb/hr	1250	lb-ft	1000	112	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
	311161 00			10.0	Litera	333	Потвероттел	1700	110	,	1230		1000		10,111	Fines			DOC, PTOX, SCR, AMOX
D11N - 365	SWrev-00		L6	10.8	Liters	365	horsepower	1700	120	lb/hr	1390	lb-ft	1000	117	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
			-				<u> </u>			,					,	Fines	u.		DOC, PTOX, SCR, AMOX
D11N - 385	SWrev-00		L6	10.8	Liters	385	horsepower	1700	127	lb/hr	1500	lb-ft	1050	121	lb/hr	Partial wit	tn		TC, CAC, EGR, DDI, ECM,
			-													Partial wit	th		DOC, PTOX, SCR, AMOX TC, CAC, EGR, DDI, ECM,
D11N - 385	SWrev-00		L6	10.8	Liters	385	horsepower	1700	127	lb/hr	1500	lb-ft	1050	121	lb/hr	Fines	L11		DOC, PTOX, SCR, AMOX
																Partial wit	th		TC, CAC, EGR, DDI, ECM,
D11N - 425	SWrev-00		L6	10.8	Liters	425	horsepower	1700	143	lb/hr	1591	lb-ft	1050	122	lb/hr	Fines			DOC, PTOX, SCR, AMOX
															,	Partial wit	th		TC, CAC, EGR, DDI, ECM,
D11N - 425	SWrev-00		L6	10.8	Liters	425	horsepower	1700	143	lb/hr	1591	lb-ft	1050	122	lb/hr	Fines			DOC, PTOX, SCR, AMOX
NADZ 225NA	CM/row 00		1.6	10.9	Litore	225	harsonowar	1700	100	lla /la «	1250	lb-ft	1100	104	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
MP7 - 325M	SWrev-00		L6	10.8	Liters	325	horsepower	1700	109	lb/hr	1250	ID-II	1100	104	ID/III	Fines			DOC, PTOX, SCR, AMOX
MP7 - 375M	SWrev-00		L6	10.8	Liters	375	horsepower	1700	124	lb/hr	1390	lb-ft	1100	116	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
1017 - 373101	344164-00		LO	10.8	Liters	3/3	Horsepower	1700	124	10/111	1390	10-10	1100	110	10/111	Fines			DOC, PTOX, SCR, AMOX
MP7 - 425M	SWrev-00		L6	10.8	Liters	425	horsepower	1700	143	lb/hr	1591	lb-ft	1050	122	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
	5111.61.65			20.0	2.00.0			27.00		,			1000		,	Fines			DOC, PTOX, SCR, AMOX
MP7 - 345C	SWrev-00		L6	10.8	Liters	345	horsepower	1700	114	lb/hr	1390	lb-ft	1100	112	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
			-				<u> </u>			,					, , , , , , , , , , , , , , , , , , ,	Fines			DOC, PTOX, SCR, AMOX
MP7 - 365C	SWrev-00		L6	10.8	Liters	365	horsepower	1700	120	lb/hr	1500	lb-ft	1100	117	lb/hr	Partial wit	tn		TC, CAC, EGR, DDI, ECM,
																Partial wit	th.		DOC, PTOX, SCR, AMOX TC, CAC, EGR, DDI, ECM,
MP7 - 395C	SWrev-00		L6	10.8	Liters	395	horsepower	1700	130	lb/hr	1591	lb-ft	1100	132	lb/hr	Fines	LII		DOC, PTOX, SCR, AMOX
			+													Partial wit	th		TC, CAC, EGR, DDI, ECM,
MP7 - 355A	SWrev-00		L6	10.8	Liters	355	horsepower	1700	118	lb/hr	1250	lb-ft	1000	112	lb/hr	Fines			DOC, PTOX, SCR, AMOX
			1													Partial wit	th		TC, CAC, EGR, DDI, ECM,
MP7 - 425SE	SWrev-00		L6	10.8	Liters	425	horsepower	1700	143	lb/hr	1591	lb-ft	1050	122	lb/hr	Fines			DOC, PTOX, SCR, AMOX
NAD7 225NA	C)4/==== 00		1.6	10.0	Litana	225	h	1700	100	He /le is	1224	11. 6.	1100	104	He /le is	Partial wit	th		TC, CAC, EGR, DDI, ECM,
MP7 - 325M	SWrev-00		L6	10.8	Liters	325	horsepower	1700	109	lb/hr	1224	lb-ft	1100	104	lb/hr	Fines			DOC, PTOX, SCR, AMOX
MP7 - 375M	SWrev-00		L6	10.8	Liters	375	horsepower	1700	124	lb/hr	1367	lb-ft	1100	116	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
375141	300100 00			10.0	Litters	373	Horsepower	1700	124	15/111	1507	15 10	1100	110	10/111	Fines			DOC, PTOX, SCR, AMOX
MP7 - 425M	SWrev-00		L6	10.8	Liters	425	horsepower	1700	143	lb/hr	1591	lb-ft	1050	122	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
			-							,					1.0,711	Fines			DOC, PTOX, SCR, AMOX
MP7 - 395C	SWrev-00		L6	10.8	Liters	395	horsepower	1700	130	lb/hr	1591	lb-ft	1100	132	lb/hr	Partial wit	th		TC, CAC, EGR, DDI, ECM,
																Fines	LI.		DOC, PTOX, SCR, AMOX
MP7 - 355A	SWrev-00		L6	10.8	Liters	355	horsepower	1700	118	lb/hr	1300	lb-ft	1100	112	lb/hr	Partial wit	tn		TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
			-													Fines			DOC, PTOX, SCR, AIVIOX
		_	-																
			-																
			-																