(2012-08-20)

**⊘** Air Resources Board

Pursuant to the authority vested in the 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-14-012;

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 FAMIL	ENGINE SIZES (L)	FUEL TYPE <sup>1</sup>	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS	ECS & SPECIAL FEATURES 3	DIAGNOSTIC <sup>5</sup>
2015	FNVXH057000	GA 9.3, 7.6	Diesel	Diesel	MHDD	DDI, TC(2), ECM, EGR, DOC(2), PTOX, CAC(2) (one CAC for engine models: A230H, A230, A215)	
1	ENGINE'S IDLE	-			ADDITION	AL IDLE EMISSIONS CONTROL	
	ESS					N/A.	
ENGINE (	L)			ENGINE	MODELS / C	ODES (rated power, in hp)	•
9.3 7.6	A3:		A350 / M2414 A300 / 215 A245 / 211	(350) ; A330H 	mergency / M2413 (3: 	Vehicle Ratings: 30); A330 / 5151 (330); A315 / 5131 (315); A300 / 51 Vehicle Ratings: 30); A330 / M2412 (330); A315 / M2411 (315) 5); A270 / 2131 (270); A260 / 2121 (260); 30); A230 / 1141 (230); A215 / 1121 (215) Vehicle Ratings: M2417 (260); A245 / M2416 (245); A245 / M2415 (2	
L=liter; hp CNG/L L/M/H I ECS=e up catalyst TBI=throttl super char control mo	n=horsepower, kw=kil McDe-light/medium/he mission control syster; PFE-diesel particul e body fuel injection; ger, CAC=charge air dule; EM=engine mon ngine shutdown syste & 1956.8(a)(6)(D); E	owatt; hr=hour;  fied natural gas;  avy heavy-duty d  n; TWC/OC=thre  ate filter, PTOX=  SFI/MFI=sequent  cooler, EGR / Ef  ification; 2 (pref  m (per 13 CCR 1  kempt=exemptec	LPG=liquefied pet iesel; UB=urban bie-way/oxidizing cal periodic trap oxidizial/multi port fuel in GR-C=exhaust gas itx)=parallel; (2) (si 956.8/a)(6)(A)(1):	roleum gas; E85=8 us; HDO=heavy di talyst; NAC=NOx a er; HO25/O25=he jection; DGI=direc recirculation / coolu uffix)=in series; 30g=30 g/hr NOx ( 8(a)(6)(B) or for Cl	adsorption catal adsorption catal ated/oxygen set gasoline inject ed EGR; PAIR	ations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; yst; SCR-U / SCR-N=selective catalytic reduction — urea / — ammoniansor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linion; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injectAIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/P (a.g.) (C); APS=internal combustion auxiliary power system; AL'stems; N/A=not applicable (e.g., Otto engines and vehicles);	a; WU (prefix) =warm- ear oxygen sensor); ction; TC/SC=turbo/ CM=engine/powertrain

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.).

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

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	*	* .
FEL	*	*	0.47	0.47	*	*	*	*	*	*	*	*
CERT	0.06	0.02	0.42	0.42	*	*	6.9	0.3	0.002	0.002	*	*
NTE	0.2	21	0.	70		*	19	).4	0.	02		*

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental Emission Testing Steady-State Cycle, NTE=Not-to-Exceed; STD=standard or emission p-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental Emission Foundation Foundation FTP=Federal Test Procedure; SET=Supplemental Emission FTP=Federal Test Procedure; SE

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 Dec. 27, 2002, as last amended Oct. 21, 2014 using the 2014 model year National Heavy-Duty Engine and Vehicle Greenhouse Gas Program as specified in Section 1036.108 of the HDDE Test Procedures. The manufacturer has submitted the required information and therefore has met the criteria necessary to receive a California Executive Order based on the Environmental Protection Agency's Certificate of Conformity for the above listed engine family.

0	Air	Resources	Board

l	EPA CERTIFICAT	E OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS			
	NVX-ON	HWY-15-01	TRACTOR / VOCATIONAL			
n		CO <sub>2</sub>	CH₄	N₂O		
g/bhp-hr	FTP	SET				
атг	600	502	0.10	0.10		
FCL	605	562	*	*		
FEL	623	579	0.10	0.10		
CERT	604	562	0.02	0.04		

**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:** 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: The listed engine models are 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 of the listed engine models has been determined to have thirty two deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$500 per engine for the third through thirty-second deficiencies in the listed engine family that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to the 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 2015 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 \$5000 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.

This Executive Order hereby supersedes Executive Order A-004-0397 dated November 18, 2014.

Executed at El Monte, California on this

\_\_\_\_ day of April 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division