California Environmental Protection Agency	NAVISTAR, Inc.	EXECUTIVE ORDER A-004-0382-1 New On-Road Heavy-Duty Engines

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-02-003;

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.

	ENGINE FAM	ILY	ENGINE SIZES (L)	FUEL TYPE	STANDARDS & TEST		ECS & SPECIAL FEATURES	DIAGNOSTIC		
					PROCEDURE	CLASS	DDI, TC(2), CAC(2), ECM, EGR,	EMD		
2012	CNVXH0928	0GA	15.2	Diesel	Diesel	HHDD	OC(2), PTOX			
	ADDITIONAL IDLE EMISSIONS CONTROL 5									
	30g	N/A.								
ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)										
15.2	A450HT / A450HT (450); A450MT / A450MT (450); A450 / A450 (450); A435MT / A435MT (435)									
	icable; GVWR=gross =horsepower: kw=ki			R xyz=Title 13, California Code of	f Regulations, Sect	ion xyz; 40 CF	R 86.abc=Title 40, Code of Federal Regulations	s, 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; 2

L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

EXPENDING THOUSING STREAM S

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO 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. "Diesel" CO, EURO 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 g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		НСНО	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	•
FEL	*	*	0.50	0.50	*	*	*	* .	*	*	* ·	*
CERT	0.05	0.000	0.44	0.35	*	*	0.7	0.02	0.004	0.005	*	*
NTE	0.21		0.75		*		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions 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 nitroge (Rev.: 2007-02-26) CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(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: That the manufacturer may not introduce into commerce any engines under this Executive Order unless the manufacturer has sufficient averaging, banking and trading credits according to the provisions of 40 CFR Part 86 to cover each engine introduced into commerce. Failure to comply with these provisions shall be cause for the Executive Officer to deem all engines produced without covered credits uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

**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" adopted Dec. 12, 2002, as last amended Sep. 27, 2010, 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: 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 (engine manufacturer diagnostic system) 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-004-0382 dated January 13. 2012.

Executed at El Monte, California on this

dav of Februarv 2012.

Annette Hebert, Chief **Mobile Source Operations Division**