California Environmental Protection Agency	NAVISTAR, Inc.	EXECUTIVE ORDER A-004-0384 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.

MODEL ENGINE FAM		IILY		FUEL TYPE	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES	DIAGNOSTIC 6		
2012	CNVXH0757	10CB	SIZES (L)	Diesel	PROCEDURE Diesel	CLASS [®] HHDD	DDI, TC(2), CAC(2), ECM, EGR, OC(2), PTOX	EMD		
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5										
	30g N/A.									
ENGINE (ENGINE (L) ENGINE MODELS / CODES (rated power, In hp)									
12.4		A500 / A500 (500); A475 / A475 (475); A450 / A450 (450); B450 / B450 (450); A430 / A430 (430); A410 / A410 (410); A450MT / A450MT (450); A430MT / A430MT (430)								
 =not applicable; GVWR=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; =-liter; hp=horsepower; kw=kilowatt; hr=hour; CNG/LNG=ccmpressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual (uel; FF=flexible fuel; L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto; ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U/SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm- up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO25/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SF/WFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carboretor; IDI/DDI=indirect/direct diesel particulate filter; PTOX=periodic trap oxidizer; HO25/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SF/WFII=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carboretor; IDI/DDI=indirect/direct diesel particulate filter; PTOX=periodic trap oxidizer; HO25/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SF/WFII=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carboretor; IDI/DDI=indirect/direct diesel particulate filter; PTOX=periodic trap oxidizer; HO25/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SF/WFII=sequential/multi port fuel injection; JCGR HES/AFS=heated/air-fuel-rated/air-fuel-ratiose fuelygen for the particulate filter; PTOX=periodic for the parti										
2) the E	EŬRO and N	ITE lin	nits under the	e applicable Californ	ia ex hau st (emission	(s) as applicable, under 13 C standards and test procedure certification levels, for this er	es for heavy-		

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	0.10	0.003	0.43	0.33	*	*	3.3	0.01	0.005	0.003	*	*
NTE	0.21		0.	0.75 *		*	19.4		0.02		*	

 4
 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 testing;

 testing;
 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 nitrogen;

 CO=carbon monoxide;
 PM=particulate matter;
 HCHO=formaldehyde;
 (Rev.: 2007-02-26)

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 this Executive Order is conditional upon completion of manufacturer's compliance with the averaging, banking and trading provisions of 40 CFR Part 86. That based on the manufacturer's statement of credit balance and projected production, the model year for purposes of production under this Executive Order expires on February 29, 2012. This Executive Order only covers engines produced on or before February 29, 2012. Furthermore, the manufacturer may not introduce into commerce any engine under this Executive Order unless the manufacturer has sufficient credits to cover the introduction into commerce of the engine. Failure to comply with these provisions shall be cause for the Executive Officer to rescind this certification, in which case all engines covered under this certification would be deemed 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.

Executed at El Monte, California on this _______ day of January 2012.

Ð Annette Hebert, Chief Mobile Source Operations Division