California Environmental Protection Agency		EXECUTIVE ORDER A-004-0387-1				
	NAVISTAR, Inc.	New On-Road Heavy-Duty Engines				
OB Air Resources Board		Page 1 of 2 Pages				

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 SIZES (L)	FUEL	TYPE	STANDARDS & TEST	SER		ECS & SPECI	AL FEATURES	3 D	
2013			12.4	D	iesel	PROCEDURE				C(2), ECM, E), PTOX	A, EGR, OBD (\$	
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL ⁵												
30g N/A												
ENGINE (L	-)				ENGINE MODE	LS / CODES (ated pov	wer, in hp)				
12.4	.4 A475/ A475 (475); A450/ A450 (450); A450MT/ A450MT (450); A500/ A500 (500); A430/ A430 (430); A430MT/ A30MT (430); A410/ A410 (410)											
 =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/LKG=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; L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDD=heavy duty Otto; ECS=emission control system; TWC/CC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm- up catalyst; DFF=dise particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/HS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=trottle body fuel injection; SFI/MFI=sequential/multi-port fuel injection; Ocide EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; 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=atternative method per 13 CCR 1956.8(a)(6)(D): Exempt exempted per 13 CCR 1956.8(a)(6)(C); APS = internal combustion auxiliary power system; ALT=atternative method per 13 CCR 1956.8(a)(6)(D): Exempt exempted per 13 CCR 1956.8(a)(6)(C); APS = internal combustion auxiliary power system; ALT=atternative method per 13 CCR 1956.8(a)(6)(D): Exempt exempted per 13 CCR 1956.8(a)(6)(C); APS = internal combustion auxiliary power system; ALT=atternative method per 13 CCR 1956.8(a)(6)(D): Exempt exempted per 13 CCR 1956.8(a)(6)(C); APS = internal combustion auxiliary power system; (2012-08-20) Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8(a); 2) the EURO and NTE limits under the applicable Ca												
in g/bhp-hr		NMHC		EURO FTP			CO	EURO	PM FTP EURO		H FTP	EURO
STD	0.14	EURO 0.14	6.20	0.20	*		5.5	15.5	0.01	0.01	*	EURO *
310	0.14	0.14	0.20	0.20		<u> </u>	0.0	+0.0	0.01	0.01		

g/pub-ur	FTP	EURO	FTP	EURO	FIP	EURO	FIP	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	0.11	0.01	0.43	0.36	*	*	3.4	0.01	0.005	0.004	*	*
NTE	0.21		0.	75	*		19.4		0.02		*	
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g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURQ=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions 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 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. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

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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 fourteen deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$500 per engine for the third through fourteenth 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 2013 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.

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).

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-004-0387 dated December 26, 2012.

Executed at El Monte, California on this

day of April 2013.

Erik White, Chief Mobile Source Operations Division