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 following on-road motor vehicles with a manufacturer's GVWR over 14000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

					ENGIN	IE DESCRIPTION						
MANUFACTURER		EXECUTIVE ORDER	MODEL	ENGINE FAMILY	ENGINE SIZES	FUEL TYPE 1	STANDARDS & TEST PROCEDURE Diesel		SERVICE CLASS 2	DDI, TC, CAC,ECM, EGR,		
		A-004-0343-1	2009	9NVXH0486AGB	(L) 7.6	Diesel			MHDD			
asoline, LP	G or Alco	hol Vehicles Only	,			VEHICLE I	DESCRIPT	ION				
EVAPORATIVE		FUEL TANK CAPACITY	VEHICLE Hybrid		VEHICLE MAKE & MODELS		ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)				
FAMILY	UL (K)	(gallons)	YEAR				7.0	GDT230 / GDT230 (230), GDT225 / GDT225 (225)				
* .			2009 9NVXH0466HG		B DuraStar Hybrid		7.6		GDT210 / GDT210 (210)			
*	+	•	•		1	•						

* =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;

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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 heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, 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.)

	NMHC		NOx		NMHC+NOx		co		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	* ,	*	•	*	15.5	15.5	0.01	0.01	•	
FEL	+	+	1.00	1.00	1.1	1.1	•	*	•	*	•	•
CERT	0.06	0.01	0.88	0.76	1.1	0.9	0.7	0.02	0.001	0.004		*
NTE	0.21		1.50		1.6		19.4		0.02			*

* g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed emission limit; 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;

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: The certification levels listed above are determined in accordance with the "California Interim Certification Procedures for 2004 and Subsequent Model Hybrid-Electric Vehicles, in the Urban Bus and Heavy-Duty Vehicle Classes, adopted October 24, 2002".

BE IT FURTHER RESOLVED: For the listed vehicle models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1976(b)(1)(F) {evaporative emission standards}, 13 CCR 2035 et seq. (emission control warranty), and 13 CCR 2235 [fill pipes and openings of motor vehicle fuel tanks]. (The braces { } are for gasoline, LPG or alcohol fueled vehicles only.)

Vehicles 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 March 2009.

Annette Hebert, Chief
7 Mobile Source Operations Division

S ECS-emission control system; TWC/DC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFIMFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECMPCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series (2004may28)

Attachment 1261

FO#: A-004-0349

Navistar / Eaton Charge Sustaining Hybrid DuraStar Truck CARB Certification Submission - Test Narrative

Applications - FOI Distribution

2009 Navistar DuraStar Hybrid Box Truck Equipped GVW 14,001-33,000 lbs.

Powertrain Specifications

Navistar Make

Model MaxxForce DT

HP and Torque Rating 225 HP 560 ft-lb - as tested

> 210 HP 560 ft-lb – optional 230 HP 620 ft-lb - optional

Engine Family 9NVXH0466AGB

Calibration PTG1SBR1

Box Truck Pick Up and Delivery - NO ESS Exempt

Transmission Eaton Hybrid Ultrashift Model EH-8E306A-CD

Transmission Calibration 5500699B

Axle Ratio as Tested 5.79:1

255/70R22.5 Wheels

Wheel RPM 517 revs per mile

103.35 ft² Frontal Area as Tested

Inertia Weight as Tested 23,025 lbs

Alternative axle ratio and wheel combinations - provided separately