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		ECS & SPECIAL FEATURES							
I LAN		_	51265 (6)		PROCEDURE	CLASS 1	DDI, TC, CAC, ECM, EGR, OC,	EMD+						
2011	BVPTH10.8S01		10.8	Diesel	Diesel	HHDD	PTOX, SCR-U, OC, SPL							
	ENGINE'S IDLE S NS CONTROL		ADDITIONAL IDLE EMISSIONS CONTROL											
	30g	N/A												
ENGINE (GINE (L) ENGINE MODELS / CODES (rated power, in hp)													
• 10.8	See attachment for engine models and ratings (clean idle engines are labeled as 50-State compliant engines)													
					2									
=not appli	cable; GVWR=gross	s vehicle w	eight rating; 13 CC	R xyz=Title 13, California Code of	Regulations, Sect	ion xyz; 40 CF	R 86.abc=Title 40, Code of Federal Regulations	s, Section 86.abc;						

L=liter; hp=horsepower; kw=kilowatt; hr=hour; 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;

Linkin HUU=lignt/medium/neavy heavy-duty diesel; UB=urban bus; HDD=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) = warn-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidazer; HO2S/O2S=heated/avygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor;); TBI=throttle body fuel injection; SFI/MFI=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 / EGR-C=exhaust gas recirculation / cooled EGR; PAIRAIR=pulsed/secondary air injection; SFI_=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in sense; SCR = Selective Catalytic Reduction system
ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/nr NOx (per 13 CCR 1956.8(a)(6)(C); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel system; N/A=not applicable (e.g., Otto engines and vehicles); END=engine modificator; 2 (prefix)=paralle; 10)

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; 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, 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	NM	IHC	NOx		NMH	C+NOx	C	0	F	M	нсно		
g/bhp-hr	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	*	*	*	*	
FEL	*	*	*	*	*	*	*	*	0.00	0.00	*	*	
CERT	0.02	0.01	0.13	0.09	*	*	*	*	0.001	0.002	*	*	
NTE	0.	21	0.30		*		19	9.4	0.	02	*		

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ramp 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

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: 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.

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) 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-242-0060, dated December 23, 2010.

Executed at El Monte, California on this

day of March 2011.

fronto A

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Template

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						[[1		A7	V	4
8,Emission Control Device Per SAE J1930	EM, EC, TC, CAC, DI, EGR, DPF, SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM, EC, TC, CAC, DI, EGR, DPF, SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM, EC, TC, CAC, DI, EGR, DPF, SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM,EC,TC,CAC,DI,EGR,DPF,SCR	EM.EC,TC,CAC,DI,EGR,DPF,SCR					
7.Fuel Rate: 8.Fuel Rate: mm/stroke@peak(tbs/hr)@peak torque	96.7 E	105.3 E	113.2 E	77.1 E	104.9 E	112.5 E	121.8 E	91.6 E	103.1 E	114.7 E	82.3 E	82.5 E	95.8 E	113.9 E	113.8 E		TC, UAC, ECM, EGA, LOR	Real Dr. S	1-1-1-20-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
7.Fuel Rate: m/stroke@peak	241.3	262.9	282.5	230.8	261.7	280.8	304.0	228.5	257.3	286.2	234.7	235.2	260.9	284.3	284.1		DDI TC'	NUTO VO	a line	
6.Torque @ RPM (SEA Gross)	1282.0 @ 1200	1393.2 @ 1200	1492.6 @ 1200	1249.1 @ 1000	1391.9 @ 1200	1491.0 @ 1200	1596.6 @ 1200	1215.3 @1200	1360.5 @ 1200	1512.6 @1200	1235.6 @ 1050	1228.5 @ 1050	1379.4 @ 1100	1508.0 @ 1200	1493.6 @ 1200					
\$ 5.Fuel Rate: P(lbs/hr) @ peak HP (fnr diesels.onity)	116.2	127.6	148.8	118.3	118.3	125.7	137.6	118.1	134.3	152.2	114.3	125.6	128.2	136.7	149.6					
4. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel oniv) (for diesels oniv)	188.1	212.4	247.6	236.2	236.2	259.7	274.7	186.1	211.7	239.8	201.4	221.3	225.9	240.8	248.9					
3.BHP@RPM (SAE Gross)	325 @ 1850	355 @ 1800	405 @ 1800	345 @ 1500	345 @ 1500	365 @ 1450	395 @ 1500	325 @ 1900	365 @ 1900	405 @ 1900	325 @ 1700	355 @ 1700	365 @ 1700	385 @ 1700	405 @ 1800					
2.Engine Model	MP7-325E	MP7-355E	MP7-405E	MP7-345A	MP7-345C	MP7-365C	MP7-395C	MP7-325M	MP7-365M	MP7-405M	D11H-325	D11H-355	D11H-365	D11H-385	D11H-405			1		
1.Engine Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	. N/A					
Engine Family	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01	BVPTH10.8S01					

ATTACHMENT

A-242-0060-1