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 FAMILY		ENGINE SIZES (L)	FUEL TYPE	STANDARDS & TEST		ECS & SPECIAL FEATURES	DIAGNOSTIC			
TEAR					PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC,	EMD+			
2011	BVPTH12.8	3S01	12.8	Diesel	Diesel	HHDD	PTOX, SCR-U, OC, SPL				
PRIMARY ENGINE'S IDLE ADDITIONAL IDLE EMISSIONS CONTROL 5											
30g		N/A									
ENGINE (NE (L) ENGINE MODELS / CODES (rated power, In hp)										
12.8		See attachment for engine models and ratings (clean idle engines are labeled as 50-State compliant engines)									
* ≍not appli	cable; GVWR=gros	s vehicle v	weight 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;

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-EUS=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=disel particulate filter; PTOX=periodic trap oxidizer; 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; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diseel injection; TC/SC=turbo/ super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled 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; SCR = Selective Catalytic Reduction system 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=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel system; (A/A=not applicable (e.g., Otto engines and vehicles); EMD=parties many indextres; (Bargetis existem (13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel system; (A/A=not applicable (e.g., Otto engines and vehicles);

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.4);

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	NMHC		NOX		NMHC+NOx		co		PM		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	0.01	0.06	0.11	0.10	*	*	. *	*	0.003	0.001	*	*
NTE	0.1	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 Proceedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicle 10 2000 the incorporated Content of Subsequent Model Heavy-Duty Diesel Engines and Subsequent Model Hea 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-242-0062, dated December 23, 2010.

Executed at El Monte, California on this

day of March 2011.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak H (for diesel only)	5.Fuel Rate: P(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: m m/s troke @peak torque	8.Fuel Rate: (lbs/hr) @peak torque	9.Emission Control Device Per SAE J1930	
BVPTH12.8S01	N/A	D13H - 500	500 @ 1700	307.5	174.5	1812 @ 1 0 50	336.8	118.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 475	475 @ 1800	279.7	168.1	1734 @ 105 0	324.6	113.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 435	435 @ 1700	286.7	162.7	1711 @ 1050	317.8	111.4	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 425	425 @ 1700	273.2	155.1	16 00 @ 105 0	2 97.7	104.4	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 425	425 @ 1700 [`]	258.8	146.9	1807 @ 1050	340.4	119.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 405	405 @ 1700	250.2	142.0	1508 @ 1000	278.1	92.9	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 405	405 @ 1700	246.2	139.8	1732 @ 1050	326.8	114.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 375	375 @ 1700	236.7	134.4	1506 @ 1000	277.6	92.7	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 500P	500 @ 1700	298.9	169.7	1765 @ 1050	328,3	115 .1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 435P	435 @ 1700	268.4	152.3	1727 @ 1050	321.3	112.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 505E	505 @ 1700	308.2	174.9	1824 @ 1100	340.3	125.0	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 445E	445 @ 1700	286.0	162.3	1780 @ 1100	330.4	121.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 415E	415 @ 1700	266.9	151.5	1702 @ 1100	314.4	115.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 505C	505 @ 1500	3 41.9	171.3	1824 @ 1100	336.2	123.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 445C	4 4 5 @ 1500	31 1.3	155.9	1780 @ 1100	330.4	121.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 415C	415 @ 1500	290.1	145.3	1702 @ 1100	314.4	115.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/Å	MP8 - 505M	505 @ 1700	309.2	175.5	1837 @ 1100	340.7	125.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	<u> </u>
BVPTH12.8S01	N/A	MP8 - 455M	455 @ 1700	282.1	160.2	1715 @ 1100	317.9	116.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 425M	425 @ 1700	274.1	155.6	1602 @ 1100	296.6	109.0	EM,EC,TC,CAC,DI,EGR,DPF,SCR	

DDI, Te, CAC, ECM, E EGR, DC, PTOX, SCR, OC, SPL SCR-4

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