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 YEAR	ENGINE FAN	ENGINE FAMILY ENGINE SIZES (L) DDDXH15.6GED 15.6		FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
2013	DDDXH15.6			Diesel	Diesel	CLASS THHDD	DDI, TC, CAC, ECM, EGR, OC, PTOX, SCR-U, AMOX	OBD (\$)			
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL ADDITIONAL IDLE EMISSIONS CONTROL 5							NTROL 5				
	30g	N/A									
ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)											
15.6	15.6 See attachment for engine models and ratings										
*=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; - - -											
TBI=throttle super charg	e body fuel injection; ger; CAC=charge ai	SFI/MFI= cooler; E	sequential/multi port GR / EGR-C=exhau	fuel injection; DGI=direct gasolin	e injection; GCAR PAIR/AIR=pulsed	B=gaseous car d/secondary air	air-fuel-ratio sensor (a.k.a., universal or linear or buretor; IDI/DDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter; ECM/PCM=	TC/SC=turbo/			
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 systems; N/A=not applicable (e.g., Otto engines and vehicles);											

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, 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.).

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD(F)/(P)/(\$)=full/ partial/ partial/ partial with fine/ on-board diagnostic.

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	0.01	0.01	*	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.000	0.000	0.07	0.02	*	*	0.1	0.02	0.004	0.000	*	*
NTE	0.21		0.30		*		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; 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: 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 eighteen deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$500 per engine for the third through eighteenth 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: 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" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended March 22, 2012, 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 1971.1 (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 December 2012.

Annette Hebert, Chief

Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Template A-290-0145

12/20/2012

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control eDevice Per SAE J1930
DDDXH15.6GED		DD16	475@1800	277,3	161.8	1850@1240	338.0	134.5	ECM, TC, CAC
DDDXH15.6GED		DD16	500@1800	291.4	170.4	1850@1240	338.0	134.5	EGR, PTOX
DDDXH15.6GED	111	DD16	530@1800	309.6	181.1	1850@1240	338.0	134.5	DDI, OC
DDDXH15.6GED	IV	DD16	560@1800	328.4	191.9	1850@1240	338.0	134.5	AMOX, SCR-U
DDDXH15.6GED	V	DD16	600@1800	355.8	207.1	1850@1240	338.0	134.5	(all ratings)
DDDXH15.6GED	VI	DD16	500@1800	291.4	170.4	2050@1240	378.4	149.9	The first the man december 2 to the first to the control of the co
DDDXH15.6GED	VII	DD16	560@1800	328.4	191.9	2050@1240	378.4	149.9	and the second s
DDDXH15.6GED	VIII	DD16	600@1800	355.8	207.1	2050@1240	378.4	149.9	W