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 FAM	ENGINE FAMILY ENGINE SIZES (L)  FDDXH14.8EED 14.8		FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC <sup>6</sup> OBD (\$)			
YEAR	ENGINE I AW			11 1 11 11	PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,				
2015	FDDXH14.8			Diesel	* Diesel	HHDD .	PTOX, SCR-U, AMOX				
	ENGINE'S IDLE			ADDI	ITIONAL IDLE EN	IISSIONS CO	NTROL 5				
	30g				. N	/A					
ENGINE (L	L)			ENGINE MODE	ELS / CODES (ra	ted power, in	hp)				
14.8		See attachment for engine models and ratings									
L=liter; hp= CNG/LN L/M/H H ECS=en	-horsepower; kw=ki IG=compressed/liqui IDD=light/medium/he mission control syste	ilowatt; hr efied natu eavy heav m; TWC/0	=hour; ral gas; LPG=liquet y-duty diesel; UB=u DC=three-way/oxidi	ried petroleum gas; E85=85% eth irban bus; HDO=heavy duty Otto zing catalyst; NAC=NOx adsorpti	nanol fuel; MF=mult ; ion catalyst; SCR-L	i fuel a.k.a. BF	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear or	/U (prefix) =warm-			
TBI=throttle super charg control mod	body fuel injection; per; CAC=charge ail lule; EM=engine mo	SFI/MFI= r cooler; E dification;	sequential/multi por GR / EGR-C=exhau 2 (prefix)=parallel;	t fuel injection; DGI=direct gasolii ust gas recirculation / cooled EGR (2) (suffix)=in series; AMOX: a	ne injection; GCAR; PAIR/AIR=pulsed mmonia oxidation c	B=gaseous car d/secondary air atalyst .	buretor; IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM=	; TC/SC=turbo/ =engine/powertrain			
per 13 CCF	R 1956.8(a)(6)(D); E	empt=e	xempted per 13 CC	A)(1); 30g=30 g/hr NOx (per 13 ( R 1956.8(a)(6)(B) or for CNG/LN0 971): OBD(F)/(P)/(\$)=full/ partial/	G fuel systems; N/A	=not applicable	al combustion auxiliary power system; ALT=al e(e.g., Otto engines and vehicles);	ternative method			

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the SET 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, SET 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 g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20		*	15.5	15.5	0.01	0.01	*	*
CERT	0.000	0.002	0.09	0.02	*	*	0.1	0.02	0.003	0.003	*	*
NTE	0.3	21	0.30		*		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET= supplemental emissions testing; 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: 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).

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: 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 nineteen deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$500 per engine for the third through nineteenth 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 2015 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.

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 January 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

## ATTACHMENT 1 OF 1

## Engine Model Summary Template

A-290-0153

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 Device Per SAE J1930
and the analysis of the second					20 10-22				
FDDXH14.8EED	I	DD15TC	455@1800	262.8	154.9	1550@1240	282.4	114.2	ECM, TC, CAC
FDDXH14.8EED	I	DD15TC	475@1800	273.8	161.4	1550@1240	282.4	114.2	EGR, PTOX
FDDXH14.8EED	111	DD15TC	505@ 1800	296.2	174.6	1550@1240	282.4	114.2	DDI, OC
FDDXH14,8EED	1	DD15TC	455@1800	262.8	154.9	1650@1240	301.4	121.9	AMOX, SCR-U
DOXH 14.8EED	<b>~</b>	DOISTC	475@1800	273.8	161.4	1650@1240	301,4	121,9	(all ratings)
FDDXH14.8EED	VI	DD15TC	505@1800	296.2	174.6	1650@1240	301.4	121,9	ye.
FDDXH14.8EED	VI	DD15TC	455@1800	262.8	154.9	1750@1240	327.6	132.5	
FDDXH14.8EED	VIII	DD15TC	505@1800	296.2	174.6	1750@1240	327.6	132.5	
FDDXH14.8EED	IX	DD15TC	455@1800	263.3	155.2	1550@1240	283.9	114.8	
FDDXH14.8EED	X	DD15TC	475@1800	276.0	162.7	1550@1240	283.9	114.8	
FDDXH14.8EED	XI	DD15TC	505@1800	296.4	174.7	1550@1240	283.9	114.8	
FDDXH14.8EED	XII	DD15TC	455@1800	263.3	155.2	1650@1240	302.7	122.4	
FDDXH14.8EED	×iII	DD15TC	475@1800	276.0	162.7	1650@1240	302.7	122.4	- Apertida - 1
FDDXH14.8EED	XIV	DD15TC	505@1800	296.4	174.7	1650@1240	302.7	122.4	
FDDXH14.8EED	XV	DD15TC	455@1800	263.3	155.2	1750@1240	325.9	131.8	The state of
FDDXH14.8EED	XVI	DD15TC	505@1800	296.4	174.7	1750@1240	325.9	131.8	