OD Air Resources Board

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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 FAM	IILY	ENGINE	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
TEAR			SIZES (L)		PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC,	OBD (\$)
2014	EDDXH14.8	EED	14.8	Diesel	Diesel	HHDD	PTOX, SCR-U, AMOX	OPD (2)
	Y ENGINE'S IDLE NS CONTROL			AD	DITIONAL IDLE EN	IISSIONS CO	NTROL 5	
	30g				N	/A		
ENGINE (L)			ENGINE MO	DELS / CODES (ra	ted power, in	hp)	
14.8				See attachm	ent for engine m	odels and ra	atings	
L=liter; hp: CNG/LN L/M/H F ECS=er up catalyst; TBI=throttle super charge	=horsepower; kw=k NG=compressed/liqu HDD=light/medium/h mission control syste ; DPF=diesel particu e body fuel injection; ger; CAC=charge ai dule; EM=engine mo	ilowatt; hr lefied natu eavy heav em; TWC/e late filter; SFI/MFI= r cooler; E edification;	r=hour; ral gas; LPG=liquefie y-duty diesel; UB=url OC=three-way/oxidizin PTOX=periodic trap isequential/multi port f EGR / EGR-C=exhaus 2 (prefix)=parallel;	d petroleum gas; E85=85% do petroleum gas; E85=85% do no us; HDO=heavy duty O ng catalyst; NAC=NOx adsor oxidizer; HO25/02S=heated. uel injection; DGI=direct gas t gas recirculation / cooled Et 2) (suffix)=in series; AMOX	ethanol fuel; MF=mul tto; ption catalyst; SCR-t oxygen sensor; HAF oline injection; GCAR 3R; PAIR/AIR=pulse; ammonia oxidation o	ti fuel a.k.a. BF J / SCR-N=sele S/AFS=heated/ tB=gaseous car d/secondary air atalyst .	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; V 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	VU (prefix) =warm- oxygen sensor); n; TC/SC=turbo/ =engine/powertrain
(per 13 CC	nodule; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; AMOX: ammonia oxidation catalystengine 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=∈ 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); >=engine manufacturer diagnostic system (13 CCR 1971); OBD(F)/(P)/(\$)=full/ partial/ partial with fine/ on-board diagnostic.							

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 heavyduty 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	NM	HC	N	Ox	NMHC	C+NOx	С	0	P	M	HC	НО
g/bhp-hr	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	*	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.000	0.002	0.09	0.02	*	*	0.1	0.02	0.003	0.003	*	*
NTE	0.	21	0.	30		*	19	9.4	0.	02		*

⁴ 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 (engine manufacturer diagnostic system), 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 sixteen deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$475 per engine for the third through sixteenth 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 2014 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.

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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 ______32

day of January 2014.

Erik White, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Template A-290-0149

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Engine Family	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: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930
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EDDXH14.8EED		DD15TC	455@1800	262.8	154.9	1550@1240	282.4	114.2	ECM, TC, CAC
EDDXH14.8EED	_	DD15TC	475@1800	273.8	161.4	1550@1240	282.4	114.2	EGR, PTOX
EDDXH14.8EED	=	DD15TC	505@ 1800	296.2	174.6	1550@1240	282.4	114.2	DDI, OC
EDDXH14.8EED	2	DD15TC	455@1800	262.8	154.9	1650@1240	301.4	121.9	AMOX, SCR-U
EDDXH14.8EED	>	DD15TC	475@1800	273.8	161.4	1650@1240	301.4	121.9	(all ratings)
EDDXH14.8EED	5	DD15TC	505@1800	296.2	174.6	1650@1240	301.4	121.9	
EDDXH14.8EED	N	DD15TC	455@1800	262.8	154.9	1750@1240	327.6	132.5	
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EDDXH14.8EED	×	DD15TC	455@1800	263.3	155.2	1550@1240	283.9	114.8	and the last that the seal of the last the last the seamont of the last the
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