⊘ Air Resources Board

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-14-012;

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	IILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS	ECS & SPECIAL FEATURES 3	DIAGNOSTIC ⁶ OBD(\$)	
	ELIMANI I O.S. A	(TD		Discol			DDI, ECM, OC, EGR, TC, CAC,		
2015 FHMXH05.1J		JIP	5.123	Diesel	Diesel	LHDD	PTOX, SCR-U	\.\ <i>\</i>	
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL				ADDITIONAL IDLE EMISSIONS CONTROL 5					
30g			-		N	/A			
ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)									
5.123 J05E-TP / TPD1 (210) (Diesel Engine); J05E-UG / UGH1 (210) (Hybrid Diesel Engine)									
*=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; Lelliter; hp=horsepower; kw=kilowatt; hr=hour; CNG/LNG=compressed/liquefled natural gas; LPG=liquefled petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; L/M/H HDD=light/medium/heavy 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) = warm-up catalyst; DFF=dlesel 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 diesel 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; 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); EMD=engine manufacturer diagnostic system; EMD+= engine manufacturer diagnostic system with catalyst monitoring (13 CCR 1971.1); OBD(F) / (P) / (\$)=full / partial / partial with fine / on-locard 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 heavydusel 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.).

NMHC		NOx		NMHC+NOx		co		PM		нсно	
FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET.	FTP	SET
0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	*
0.003	0.001	0.18	0.20	*	*	0.01	0.00	0.004	0.002	*	*
0.21		0.30		* 2.		19.4		0.02		*	
	6.14 0.003	FTP SET 0.14 0.14 0.003 0.001	FTP SET FTP 0.14 0.14 0.20 0.003 0.001 0.18	FTP SET FTP SET 0.14 0.14 0.20 0.20 0.003 0.001 0.18 0.20	FTP SET FTP SET FTP 0.14 0.14 0.20 0.20 * 0.003 0.001 0.18 0.20 *	FTP SET FTP SET FTP SET 0.14 0.14 0.20 0.20 * * 0.003 0.001 0.18 0.20 * *	FTP SET FTP SET FTP SET FTP 0.14 0.14 0.20 0.20 * * 15.5 0.003 0.001 0.18 0.20 * * 0.01	FTP SET FTP SET FTP SET FTP SET 0.14 0.14 0.20 0.20 * * 15.5 15.5 0.003 0.001 0.18 0.20 * * 0.01 0.00	FTP SET FTP SET FTP SET FTP SET FTP 0.14 0.14 0.20 0.20 * * 15.5 15.5 0.01 0.003 0.001 0.18 0.20 * * 0.01 0.00 0.004	FTP SET FTP <td>FTP SET FTP SET FTP SET FTP SET FTP SET FTP SET FTP 0.14 0.14 0.20 0.20 * * 15.5 15.5 0.01 0.01 * 0.003 0.001 0.18 0.20 * * 0.01 0.00 0.004 0.002 *</td>	FTP SET FTP SET FTP SET FTP SET FTP SET FTP SET FTP 0.14 0.14 0.20 0.20 * * 15.5 15.5 0.01 0.01 * 0.003 0.001 0.18 0.20 * * 0.01 0.00 0.004 0.002 *

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental Emissions Test; 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: The manufacturer has demonstrated compliance with the Greenhouse Gas Emission Standards as specified in Title 13 CCR 1956.8 and the incorporated "California Exhaust Emission 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 Oct. 21, 2014 using the 2014 model year National Heavy-Duty Engine and Vehicle Greenhouse Gas Program as specified in Section 1036.108 of the HDDE Test Procedures. The manufacturer has submitted the required information and therefore has met the criteria necessary to receive a California Executive Order based on the Environmental Protection Agency's Certificate of Conformity for the above listed engine family.

	EPA CERTIFICATI	OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS				
	HMX-ONH	WY-15-01.2	VOCATIONAL				
In	C	O ₂	CH ₄	N.O.			
g/bhp-hr	FTP	SET	OΠ ₄	N₂O			
STD	600	*	0.10	0.10			
FCL	563	*	*	*			
FEL	580	*	0.02	0.03			
CERT	563	*	0.02	0,03			

4 g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; STD = standard or emission test cap; FEL=family emission limit; FCL=family certification level; CERT=certification level; CO₂=carbon dioxide; CH₄=methane; N₂O=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine

BE IT FURTHER RESOLVED: Certification to the FEL(s) / FCL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) / FCL(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.

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BEIT 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 2035 et seq. (emission control warranty) and 13 CCR 1971.1 (on-board diagnostic).

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 Apr. 18, 2013, 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 model J05E-TP is 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 has been determined to have five deficiencies, and therefore is approved subject to the manufacturer paying a fine of \$75 per engine for the third through fifth deficiencies in the listed engine family that is produced and delivered for sale in California. Furthermore, the listed engine model J05E-UG is 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 has been determined to have seven deficiencies (five engine related and two hybrid related), and therefore is approved subject to the manufacturer paying a fine of \$75 per engine for the third through fifth deficiencies (engine related) 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.

This Executive Order hereby supersedes Executive Order U-R-030-0080-2 dated April 15, 2015.

Executed at El Monte, California on this

_ day of December 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division