**⊘** 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	AR ENGINE FAMILY SIZES (L)			FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6	
ILAN			312E3 (E)		PROCEDURE	CLASS 4	DFI, TC, CAC, ECM, PTOX, OC,		
2017			Diesel	Diesel	MHDD	EGR, SCR-U, AMOX	OBD(\$)		
	NS CONTROL			ADD	ITIONAL IDLE EN	issions co	NTROL <sup>5</sup>		
	30g				N	/A			
ENGINE (	L)		17 18 1	ENGINE MOD	ELS / CODES (ra	ted power, In	hp)		
7.684				J08	E-WU/WUD1	(230)			
				R xyz=Title 13, California Code	of Regulations, Sect	ion xyz; 40 CF	R 86.abc=Title 40, Code of Federal Regulation	s, Section 86.abc;	
	=horsepower; <b>kw</b> =k			ied netroleum gos. E9E-95% of	annot fuol: ME-mult	lfuoloko BE	hi first: DE-dual first: EE-floyible first:		
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;  L/M/H HDD=light/medium/heavy-heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;									
					•	L / OOD Massis	athra antalulla vaduallam i uran / amuseuts. 14	fill form the body and a second	
							ctive catalytic reduction urea / ammonia; <b>V.</b> air-fuel-ratio sensor (a.k.a., universal or linear c		
							rburetor; IDI/DDI=indirect/direct diesel injection		
uper charg	ger; CAC≍charge ai	r cooler; E	GR / EGR-C=exhau	ist gas recirculation / cooled EGF	R; PAIR/AIR=pulsed	d/secondary air	injection; SPL=smoke puff limiter; ECM/PCM=	engine/powertrai	
				(2) (suffix)=In series;					
ESS≍er per 13 CC	ngine shutdown syst R 1956.8(a)(6)(D); I	em (per 13 E <b>xempt</b> =e	CCR 1956.8(a)(6)(a) xempted per 13 CCF	A)(1); <b>30g=</b> 30 g/hr NOx (per 13 R 1956.8(a)(6)(B) or for CNG/LN:	CCR 1956.8(a)(6)(C 3 fuel systems; N/A	;); APS =intern =not applicable	al combustion auxiliary power system; ALT=al- e (e.g., Otto engines and vehicles);	ternative method	
				971); OBD(F) / (P) / (\$)≍full / part					

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	NMHC		NOx		NMHC+NOx		· co		PM		нсно	
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	*	*
CERT	0.01	0.08	0.17	0.14	*	*	0.1	0.02	0.004	0.003	*	*
NTE	0.21		0.30		*		19.4		0.02		*	

<sup>4</sup> g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=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: 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 CERTIFICATE		PRIMARY INTENDED SERVICE CLASS VOCATIONAL			
	HHMXH07	./3//0-003				
ln	C	O <sub>2</sub>	СН	N O		
g/bhp-hr	FTP	SET	Ch4	N₂O		
STD	555	*	0.10	0.10		
FCL	530	*	*	*		
FEL	546	*	*	*		
CERT	526	*	0.000	0.04		

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.

@ Air Resources Board

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 Oct. 21, 2014, 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 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, and therefore is approved subject to the manufacturer paying a fine of \$175 per engine for the third through seventh 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 2017 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 A-031-0091 dated December 16, 2016.

Executed at El Monte, California on this

, day of M*ą*y 2017.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division