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	ENGINE FAN	ENGINE FAMILY		FUEL TYPE 1	STANDARDS & TEST	SERVICE 2	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6 EMD+		
2016			SIZES (L)	LPG	PROCEDURE Otto	HDO	ECM, TWC, SFI, 2HO2S(2)			
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5			ADDITIONAL IDLE EMISSIONS CONTROL 5							
N/A			N/A							
ENGINE (ENGINE (L) . ENGINE MODELS / CODES (rated power, in hp)									
8.8 PSI LPG / Single Fuel LPG (270), Single Fuel LPG 220 (220), Single Fuel LPG 200 (200); PSI-N LPG / Single Fuel-N LPG (270), Single Fuel-N LPG 220 (220), Single Fuel-N LPG 200 (200)										
L=liter; hp: CNG/Lt L/M/H F ECS=er up catalyst; TBI=throttle super chargeontrol mode	p=horsepower; kw=k NG=compressed/liqu HDD=light/medium/h mission control syste ;; DPF=diesel particle e body fuel injection; ger; CAC=charge aidule; EM=engine module;	ilowatt; hi lefied natu eavy heav em; TWC/ late filter; SFI/MFI= r cooler; E odification;	r=hour; ıral gas; LPG=liquef ıry-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic trap; sequential/multi port EGR / EGR-C=exhau 2 (prefix)=parallel;	ied petroleum gas; E85=85% ethirban bus; HDO=heavy duty Otto; zing catalyst; NAC=NOx adsorptic oxidizer; HO2S/O2S=heated/ox; fuel injection; DGI=direct gasolir ust gas recirculation / cooled EGR; (2) (suffix)=in series;	anol fuel; MF=mult on catalyst; SCR-U gen sensor; HAF; e injection; GCAR PAIR/AIR=pulsec	i fuel a.k.a. BF I / SCR-N=seled S/AFS=heated/a B=gaseous car d/secondary air	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 c buretor; IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM: al combustion auxiliary power system; ALT=al	/U (prefix) =warm- xygen sensor); ; TC/SC=turbo/ engine/powertrain		

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 (13 CCR 1971.1); OBD=on-board diagnostic system (13 CCR 1971.1);

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.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		со		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.09	*	0.16	*	*	*	5.7	*	0.003	*	0.001	*
NTE	*		*		*		*		*		*	

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 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 Otto Cycle Engines and Vehicles" (HDOE Test Procedures) adopted Dec. 27, 2000, 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 HDOE 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 VOCATIONAL			
	PSI-ONH	WY-16-04				
In	C	O ₂	CH₄			
g/bhp-hr	FTP	SET		N₂O		
STD	*	*	*	*		
CL	*	*	*	*		
EL	*	*	*	*		
CERT	*	*	*	*		

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

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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 Otto Cycle Engines and Vehicles" (HDOE Test Procedures) adopted Dec. 27, 2000, as last amended Oct. 21, 2014 using the Interim Provisions as specified in Section 1036.150(d) of the HDOE Test Procedures.

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), 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.

This Executive Order hereby supersedes Executive Order A-415-0006 dated September 14, 2015.

Executed at El Monte, California on this

1 - /

day of April 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division