California	Environmental	Protection	Agency
Θ Δί	r Resou	rces B	oard

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				FUEL TYPE 1	STANDARDS & TEST PROCEDURE		ECS & SPECIAL FEATURES ³ DIAGNOS		
YEAR			512ES (L)		a leat frocedore	CLASS [*]	TC, DDI, CAC, EGRC, ECM, PTOX, DOC, SCRC(Urea),		
2016	GFMXH06.70	245	6.7	Diesel	Diesel	MHDD	NOXS	OBD (P)	
1	ADDITIONAL IDLE EMISSIONS CONTROL 4								
	30g N/A								
ENGINE (GINE (L) ENGINE MODELS / CODES (rated power, in hp)								
6.7	4V F-Series / GBC17A05; GBC17C05 (270 For All Codes) 4V F-Series / GBC17E05; GBC17F05 (300 For All Codes) 4V F-Series / GBC17G05; GBC17J05 (330 For All Codes)								
			•	-			270); GBC17H0A (330); GBC17K0A		
* =not appl L=liter; hp	cable; GVWR=gros =horsepower; kw=k	s vehic ilowatt	ble weight rating; 1 ; hr≂hour;	3 CCR xyz=Title 13, Califo	rnia Code of Regulations, S	Section xyz; 40 CF	R 86.abc=Title 40, Code of Federal Regulation	s, Section 86.abc;	

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;

2 L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

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Essengine 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; MA=not applicable (e.g., Otto engines and vehicles); EMD=engine manufacturer diagnostic system ; OBD(F) / (P) / (\$)=full / partial / partial with fine / on-board diagnostic; (2012-08-20)

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 Galifornia 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.).

іп ммнс		NOx		NMHC+NOX CO		0	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	0.01	0.15	0.07	*	*	0.6	0.1	0.001	0.000	*	*
NTE	0.:	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: 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. 27, 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. For the listed California-only engine family, the manufacturer has submitted the required greenhouse gas information.

1	EPA CERTIFICATI	E OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS			
	FMX-ONH	WY-16-01.1	VOCATIONAL			
ln g/bhp-hr	C	O ₂	CH4			
	FTP	SET	014	1120		
STD	600	*	0.10	0.10		
CL	570	*	*	*		
EL	587	*	0.10	0.10		
CERT	563	*	0.01	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; VOCATIONAL=vocational engine; TRACTOR=tractor engine FCL=family certification level; CERT=certification level; CO2=carbon dioxide; CH4=methane; N2O=nitrous oxide;

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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.

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" 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: That the manufacturer has elected to include engine models in this engine family which are identified for "emergency vehicle use only". These "emergency vehicle use only" engines are exempt from requirements imposed pursuant to California law and the regulations adopted pursuant thereto for motor vehicle pollution control devices per California Vehicle Code Section 27156.2. The manufacturer must clearly label these engines for "emergency vehicle use only" on the engines' emission control label.

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).

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-010-1919 dated June 19, 2015.

Executed at El Monte, California on this ______ day of September 2016.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division