

ENCORE TEC LLC

EXECUTIVE ORDER A-436-0004 New On-Road Heavy-Duty Engines Page 1 of 2 Pages

Pursuant to the authority vested in California 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 FAM	ILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 5
TEAR					PROCEDURE	CLASS 2	ECM, TWC, SFI, 2HO2S	OBD (F)
2018	JEL3E06.0	584	6.0	CNG	Otto	HDO	ECIVI, 144C, 3F1, 2F1023	OBD (F)
	ENGINE'S IDLE			AL	DOITIONAL IDLE EN	IISSIONS CONT	ROL 4	
	N/A				N	/A		
ENGINE (L)			ENGINE MO	DELS / CODES (ra	ted power, in h	0)	
6.0					2 Valve / 1 (32	(0)		
L=liter; hp=1 CNG/LN4 L/M/H HI CS ECS=emup catalyst;	horsepower; kw=ki G=compressed/liqu DD=light/medium/he iission control syste DPF=diesel particu wide range oxygen	lowatt; hr efied natur eavy heavy m; TWC/0 late filter; sensor, TE	=hour; ral gas; LPG=liquefier y-duty diesel; UB=urb OC=three-way/oxidizin PTOX=periodic trap o	d petroleum gas; E85=85% an bus; HDO=heavy duty O g catalyst; NAC=NOx adso xidizer; HO2S/O2S=heated	ethanol fuel; MF=muli rito; rption catalyst; SCR-L /oxygen sensor; HAF rmulti port fuel injection	ti fuel a.k.a. BF=b J / SCR-N=selectiv S/AFS=heated/air T DGI=direct gas	36.abc=Title 40, Code of Federal Regulation if fuel; DF=dual fuel; FF=flexible fuel; we catalytic reduction – urea / – ammonia; rfuel-ratio sensor (a.k.a., universal or linear oline injection; GCARB=gaseous carburet	WU (prefix) =warm- oxygen sensor);

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.). 4

EMD=engine manufacturer diagnostic system; OBD(F) / (P) / (\$)=full / partial / partial with fine / on-board diagnostic

in g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		НСНО	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.05	*	*	*	14.4	*	0.01	*	0.01	w
CERT	0.07	*	0.04	*	*		0.5	*	0.000	*	0.000	*
NTE						*	,					

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: That the listed engine family is certified to the Optional Low NOx Emission Standards as specified in 13 CCR 1956.8(c)(1)(B) and section 10. B. 1 of the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Otto-Cycle Engines and Vehicles" adopted Dec. 27, 2002, as last amended Oct. 21,2014.

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	E OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS				
1	JEL3E06	0.0584-003	Vocational				
In	C	CO ₂	CH4	N₂O			
g/bhp-hr	FTP	SET	Cru	N ₂ O			
STD	*	•	*	•			
FCL	*	*	*	•			
FEL	*	*	*	•			
CERT	*	*	*	*			



ENCORE TEC LLC

EXECUTIVE ORDER A-436-0004 New On-Road Heavy-Duty Engines Page 2 of 2 Pages

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

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

day of March 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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Ingine 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: (lbs/hr)@peak torqu	9.Emission Control eDevice Per SAE J1930
L3E06.0584	1	2 Valve	320 @ 4900			400 @ 3500	325.55	87.28	TWC, 2H02\$

ECM, SFII