

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-19-095;

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 FAMILY	ENGINE SIZES (L)	FUEL TYPE	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
2020	LRIIE07.3BWU		LPG	PROCEDURE	OLIVICE CLASS					
2020	ERRIEO7.3BVV0	7.3	LPG	Otto	HDO	TWC, HO2S, SFI, 2WR-HO2S	OBD(F)			
PRIMAR	PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5									
		00,010,001	WINOL		ADDITIO	NALIDLE EMISSIONS CONTROL 5				
	N/A			N/A						
ENGINE (ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)									
7.3	7.2									
	See Attachment									
L=liter; hp	* =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; L=liter; hp=horsepower; kw=kilowatt; hr=hour;									
CNG/LN	CNG/LNG=compressed/iquefied 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;									
1 2	a Differential integral integr									
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; DPF=diesel 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); WR-HO2S=wide range oxygen sensor; TBI=throttle body fuel injection; SFIMFI=sentelal/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module: EM=engine modification; 2 (prefix)=smodule; 70 (circulation / cooled EGR; PAIR/AIR=pulsed/secondary air injection;										
iper 13 CCI	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 EMD=engine manufacturer diagnostic system (13 CCR 1956.8(a)(6)(E) - (F)									
EMD=6	EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD(F) / (P) / (\$)=full / partial with a fine / on-board 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 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

	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
CERT	0.05	*	0.03	*	*	*	5.8	*	0.003	*	0.000	*
NTE	*		*		*		*		*		*	
4 g/bhp-hr FEL=family e	grams per bra mission limit;	ake horsepowe CERT=certif		=Federal Te	st Procedure; non-methane/hy	SET=Suppleme	ental emissions NOx=oxides of r		=Not-to-Exceed; carbon monoxid		rd or emission test	cap;

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 December 27, 2000, as last amended December 19, 2018 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.

<u> </u>	EPA CERTIFICATE	OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS Vocational			
	LRIIE07.3B	WU-004				
In	co	2				
g/bhp-hr	FTP SET		CH₄	N₂O		
STD	627	*	0.10	0.10		
FCL	627	*	*	*		
FEL	646	*	*	*		
CERT	545	*	0.03	0.02		
FEL CERT 4 g/bhp-hr=grams FCL=family certifica		* deral Test Procedure; SET=Supplement O2=Carbon dioxide; CH2=methane;	* 0.03 all emissions testing; N ₂ 0=nitrous oxide: VOCATIONAL=vocational	ion test cap; FEL=famil		

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.



ROUSH INDUSTRIES, INC.

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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.

Executed at El Monte, California on this

day of April 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division