Pursuant to the authority vested in the 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	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE ¹	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES ³	DIAGNOSTIC 5
TEAR		512E3 (E)	•	PROCEDURE	CLASS 2	TWC, SFI, 2WR-HO2S, HO2S	EMD+
2017	HRIIE06.8BWL	6.8	LPG	Otto	HDO	1WC, 3FI, 2WR-1025, 1025	
	Y ENGINE'S IDLE DNS CONTROL 4	· · · · · ·	ADDI	TIONAL IDLE EN	ISSIONS CO	NTROL ⁴	
	N/A			N	/A ·		
ENGINE ((L)		ENGINE MODE	LS/CODES (ra	ted power, In	hp)	
6.8	•	•	Pleas	e see the attac	chment.		······
* =not appl	licable: GVWR=gross veh	icle weight rating: 13 CC	CR xyz=Title 13, California Code o	f Regulations, Sect	ion xvz: 40 CFI	R 86.abc=Title 40. Code of Federal Regulation	s. Section 86 abc

=liter; hp=horsepower; kw=kilowatt; hr=hour; 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; 100

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 California 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 excertification of the structure of the struct parentheses.).

in .	NMI	-IC	N	lOx ·	NMHO	C+NOx	C	0	PI	VI	нсі	-10
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.05	*	*	*	14.4	*	0.01	*	0.01	*
CERT	0.04	*	0.03	*	*	*	2.7	*	0.002	*	0.001	*
NTE	*		· ·	* .		*	. ,	٢	*		*	

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 December 27, 2000 and last amended September 1, 2017.

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			
HRIIE06.	8BWL-002	Vocational			
¢	O ₂		N ₂ O		
FTP	SET	CH4			
627	*	0.10	0.10		
627	, *	* .	*		
646	. *	*	*		
614	*	0.03	0.03		
	HRIIE06. C FTP 627 627 646	627 * 627 * 627 * 646 *	HRIIE06.8BWL-002 Vocation CO2 CH4 FTP SET 627 * 646 *		

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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ROUSH INDUSTRIES INC.

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: 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.

This Executive Order hereby supersedes Executive Order A-344-0074 dated May 15, 2017.

Executed at El Monte, California on this _____ day of December 2017.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Attachment

A-344-0074-1 12/26/2017

ROUSH_®

LARGE ENGINE MODEL SUMMARY

Manufacturer: Roush Industries, Inc.

EPA Engine Family: HRIIE06.8BWL

Manufacturer Family Name: HRIIE06.8BWL

2017 MODEL YEAR 6.8L-3V ENGINE

				Fuel Rate	Fuel Rate	
		BHP@RPM	Torque@RPM	mm³/stroke @	lbs/hr @	Emission Control
Engine Code	Engine Model	SAE Net	SAE Net	peak torque	peak torque	Device per SAE J1930
HHF410TR5	Step Van	320 @ 3900	415 @ 3072	93.2	97.2	TWC, 2WR-HO2S,HO2S,SFI
HHF417TR5	Step Van	Same	Same	Same	Same	Same
HHF4178R5	Step Van	Same	Same	Same	Same	Same
HHF41ATR5	Step Van	Same	Same	Same	Same	Same
HHF416TR5	Step Van	Same	Same	Same	Same	Same
HHF4168R5	Step Van	Same	Same	Same	Same	Same
HHFC10KR5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
HHFC10NR5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
HHFC10RR5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
HHFC10PR5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
HHFC178R5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
HHFA10CR5	F-450/550 Chassis Cab	Same	Same	Same	Same	Same
HHFA17CR5	F-450/550 Chassis Cab	Same	Same	Same	Same	Same
HHFA178R5	F-450/550 Chassis Cab	Same	Same	Same	Same	Same
HHF618BR5	Blue Bird Vision Bus	Same	Same	Same	Same	Same
HHF618FR5	Blue Bird Vision Bus	Same	Same	Same	Same	Same
HHF510TR5	Motor Home	Same	Same	Same	Same	Same
HHF517TR5	Motor Home	Same	Same	Same	Same	Same
HHF5178R5	Motor Home	Same	Same	Same	Same	Same
HHF51ATR5	Motor Home	Same	Same	Same	Same	Same
HHF516TR5	Motor Home	Same	Same	Same	Same	Same
HHF5168R5	Motor Home	Same	Same	Same	Same	Same

Test Group: HRIIE06.8BWL Issued: January 23, 2017 Revised: October 23, 2017

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X: added per RIC

19.03.00.01