ROUSH INDUSTRIES INC.

EXECUTIVE ORDER A-344-0065 New On-Road Heavy-Duty Englines Page 1 of 2 Pages

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 YEAR	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 5 EMD+		
2016	GRIJE06.8E	GRIIE06.8BWL		LPG	Otto	CLASS *	TWC, SFI, 2WR-HO2S, HO2S			
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 4			0,0	6.8 LPG Otto HDO 100, 51, 200, 1025 LIVID 1						
N/A		N/A								
ENGINE (I	L)	ENGINE MODELS / CODES (rated power, in hp)								
L=liter; hp=	cable; GVWR=gros =horsepower; kw=k	s vehicle v ilowatt; h	weight rating; 13 CC r=hour;	R xyz=Title 13, California Code o	f Regulations, Sec	tion xyzi 40 CF	GGF61HFR5, GGF61JFR5 (320 for R 86.abc=Title 40, Code of Federal Regulation = bi fuel; DF=dual fuel; FF=flexible fuel;			
L/M/H H ECS=er up catalyst; WR-HO2S= IDI/DDI=ind SPL=smoke ESS=er	IDD=light/medium/h mission control syste DPF=diesel particu wide range oxygen lirect/direct diesel inj e puff limiter; ECM/i ngine shutdown syst	eavy heavem; TWC/ ulate filter; sensor; Telection; Tele	y-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic trans Bl=throttle body fuel C/SC=turbo/ super control ine/powertrain control CCR 1956.8(a)(6)(irban bus; HDO=heavy duty Otto; zing catalyst; NAC=NOx adsorptio o oxidizer; HO2S/O2S=heated/ox; injection; SFI/MFI=sequential/mu harger; CAC=charge air cooler; I ol module; EM=engine modificatio A)(1); 30g=30 g/hr NOx (per 13 C	on catalyst; SCR-lygen sensor; HAF liti port fuel injectio EGR / EGR-C=exh in; 2 (prefix)=para CCR 1956.8(a)(6)(0	J / SCR-N=seled S/AFS=heated/ n; DGI=direct g aust gas recircu illel; (2) (suffix) D); APS =intern	ctive catalytic reduction – urea / – ammonia; V air-fuel-ratio sensor (a.k.a., universal or linear rasoline injection; GCARB=gaseous carbureto liation / cooled EGR; PAIR/AIR=pulsed/secon	oxygen sensor); cary air Injection;		
				(P) / (\$)=full / partial / partial with			(oradi one origines and foliolog),	/2042.00.00		

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.).

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

in	NMHC		NOx		NMHC+NOx		co		PM		нсно	
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
CERT	0.02	*	0.01	*	*	. *	1.2	*	0.000	*	0.000	*
NTE	*		7			*	٧	k	*	r	*	

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: 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 CERTIFICATE OF C	ONFORMITY	PRIMARY INTENDED SERVICE CLASS Vocational			
	GRIIE06.8BWI	-001				
In	CO₂		O.U.			
g/bhp-hr	FTP	SET	CH₄	N₂O		
STD	627	*	0.10	0.10		
FCL	627	*	*	*		
FEL	*	*	*	*		
CERT	586	*	0.03	0.02		

⁴ 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; CH₂=methane; N₂O=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine

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.

Executed at El Monte, California on this

_ day of June 2016

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division