

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 diesel or incomplete medium-duty vehicles with a manufacturer's GVWR from 10,001 to 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL ENGINE FAMILY STD			FUEL TYPE 1	STANDARDS & TEST PROCEDURE	ENGINE SIZES (L)	ECS & SPECIAL FEATURES 3		OBD COMPLIANCE	
2020	LRIIE07.3BWU	ULEV	LPG	Otto	7.3	TWC, HO2S, SFI, 2WR-HO2S		OBD(F)	
	ENGINE MODELS / CODES (rated power, in hp)								
	7.3	OBD(F)							

=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;

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;

SULEY / ULEY / LEV=super ultra / ultra / low emission vehicle;

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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/eir-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); WR-HO2S=wide range oxygen sensor; TBl=trirottle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGl=direct gasoline injection; GCARB=gaseous carburetor; WR-HO2S=wide range oxygen sensor; TBl=trirottle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGl=direct gasoline injection; GCARB=gaseous carburetor; Ultrottle injection; TC/SC=turbo/ super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

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, in g/bhp-hr, 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. (Fordual-and flexible-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel.)

NMHC NOX				NMHC+NOx		CO		PM		нсно		
	NMHC FTP SET	FTP SET		FTP SET	FTP SET	FTP	SET	FTP	SET			
	FTP	3E1	0.20	*	*	*	14.4	*	0.01	*	0.01	*
STD	0.14			*		*	5.8	*	0.003	*	0.000	*
CERT	0.05	*	0.03				0.0		0.000			×
NTE	*			*	*		*				and an emission test cap:	

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=formal/dehyde;

BEIT 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.

	EPA CERTIFICATE O	FCONFORMITY	PRIMARY INTENDED SERVICE CLASS				
-	LRIIE07.3B	VU-004	Vocational				
in	CO ₂		CH4	N₂O			
/bhp-hr	FTP	SET	0112				
STD	627	*	0.10	0.10			
CL	627	*	*	*			
EL	646	*	*	*			
ERT	545	*	0.03	0.02			
4 a/bbp-br=gram		eral Test Procedure; SET=Supplementa D2=carbon dioxide; CH4=methane;		n test cap; FEL=family emission limit; ngine; TRACTOR=tractor engine			

BEIT 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 alternate emission standards as specified in Section 1036.108(a)(4) of the HDOE test procedures.

BEIT FURTHER RESOLVED: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 10,001 to



ROUSH INDUSTRIES, INC.

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14,000 pounds and, therefore, shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 10,001-14,000 pounds GVWR).

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 1968.2 (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-344-0116 dated April 17, 2020.

Executed on this _____ day of July 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

ATTACHMENT 1 OF 1

Engine Model Summary Template

A-344-0116-1 06/09/20

Engine 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		9.Emission Control eDevice Per SAE J1930
LRIIE07.3BWU	LLE31FHR5	E-Series	350@3900	NA	NA	468@3900	127.0	169.1	TWC/HO2S/SFI/2WR- HO2S
LRIIE07.3BWU	LLE31FVR5	E-Series	350@3900			468@3900	127.0	169.1	SAME
LRIIE07.3BWU	LLE31F2R5	E-Series	350@3900			468@3900	127.0	169.1	SAME
LRIIE07.3BWU	LLE31RHR5	E-Series	300@3750			425@3250	91.1	109.9	SAME
LRIIE07.3BWU	LLE31RVR5	E-Series	300@3750			425@3250	91.1	109.9	SAME
LRIIE07.3BWU	LLE31R2R5	E-Series	300@3750			425@3250	91.1	109.9	SAME