

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 ENGINE FAMILY | | ENGINE SIZES (L) | FUEL TYPE 1 | STANDARDS & TEST | INTENDED SERVICE CLASS 2 | ECS & SPECIAL FEATURES 3 | DIAGNOSTIC 8 | | | | |
|---|---|--|---|--|---|--|--|--|--|--|--|
| | KDUESS SDIAS | OILLO (L) | 100 | PROCEDURE | SERVICE CLASS | THE HOSE OF MAR HOSE | 000/5 | | | | |
| 2019 | KRIIE06.8BW2 | 6.8 | LPG | Otto | HDO | TWC, HO2S, SFI, 2WR-HO2S | OBD(F) | | | | |
| PRIMARY | ENGINE'S IDLE EMIS | SSIONS CO | NTROL 5 | | ADDITIONAL | IDLE EMISSIONS CONTROL 5 | | | | | |
| | N/A | | | | | N/A | | | | | |
| ENGINE (| L) | ENGINE MODELS / CODES (rated power, in hp) | | | | | | | | | |
| 6.8 | | See Attachment | | | | | | | | | |
| L=liter; hp: CNG/LI L/M/H II ECS=er up catalyst; WR-H02S= | horsepower; kw=kilowa IG=compressed/liquefied IDD=light/medium/heavy nission control system; 1 DPF=diesel particulate wide range oxygen sens irect/direct diesel injectic | att; hr=hour; d natural gas; heavy-duty d TWC/OC=thre filter; PTOX= for; TBI=thrott | LPG=liquefied periods: UB=urban in the way/oxidizing comperiodic trap oxidide body fuel inject | otroleum gas; E85=85 bus; HDO=heavy duty atalyst; NAC=NOx ad zer; HO2S/02S=heat ion; SFI/MFI=sequent r; CAC=charge air co | % ethanol fuel; MF=multi fuel y Otto; sorption catalyst; SCR-U / SC ted/oxygen sensor; HAFS/AF tial/multi port fuel injection; DC | ryz; 40 CFR 86.abc=Title 40, Code of Federal Regula I a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; CR-N=selective catalytic reduction – urea / – ammoni S=heated/air-fuel-ratio sensor (a.k.a., universal or lin Gl=direct gasoline injection; GCARB=gaseous carbu gas recirculation / cooled EGR; PAIR/AIR=pulsed/se | a; WU (prefix) =warm- ear oxygen sensor); retor; | | | | |

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 (13 CCR 1971); OBD(F) / (P) / (\$)=full / partial / partial with a fine / on-board diagnostic;);

| | NMHC | | NOx | | NMHC+NOx . | | CO | | PM · | | нсно | |
|------|------|-----|------|-----|------------|------|------|-----|-------|-----|-------|-----|
| | FTP | SET | FTP | SET | FTP | SET | FTP | SET | FTP | SET | FTP | SET |
| STD | 0.14 | | 0.02 | * | * | * | 14.4 | * | 0.01 | * | 0.01 | * |
| CERT | 0.04 | * | 0.01 | n | * | * | 5.0 | * | 0.002 | | 0.000 | * |
| NTE | | | | | | tr . | 1 | | , | | | |

4 g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; NTE=Not-to-Exceed; 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, as 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 December 27, 2000, as last amended September 1, 2017 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.



ROUSH INDUSTRIES, INC.

EXECUTIVE ORDER A-344-0096 New On-Road Heavy-Duty Engines Page 2 of 2 Pages

| | EPA CERTIFICATE | OF CONFORMITY | PRIMARY INTENDED SERVICE CLASS | | | | |
|------------|-----------------|----------------|--------------------------------|------------------|--|--|--|
| - n STEEPE | KRIIE06.8 | BW2-002 | Vocational . | | | | |
| In | CC |) ₁ | CH | N ₂ O | | | |
| g/bhp-hr | FTP | SET | CH₄ | | | | |
| STD | 627 | | 0.10 | 0.10 | | | |
| FCL | 627 | | | • | | | |
| FEL | 646 | • | 0.10 | 0.10 | | | |
| CERT | 613 | | 0.03 | 0.02 | | | |

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 ___

-11/

day of November 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

A-344-0096 08/28/18

| 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 | 8,Fuel Rate: (lba/hr)@peak torque | 9.Emission Control PDevice Per SAE J1930 |
|-----------------|---------------|--------------------------------|--------------------------|--|--|-------------------------------|--|--------------------------------------|---|
| KRIIE06.8BW2 | KKFB18BR5 | Blue Bird Vision School Bus | 320@3900 | NA | ŇA | 407@3150 | 103.4 | 109.3 | TWC/HO28/SFI/ZWR- HO2S |
| KRIIE06.8BW2 | KKFB18FR5 | Blue Bird Vision School Bus | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN410TR5 | Step-Van | SAME | | | SAME | SAME | SAME | SAME - |
| KRIIE06.8BW2 | KKN417TR5 | Step-Van | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN4178R5 | Step-Van | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN41ATR5 | Step-Van | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN416TR5 | Step-Van | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN4168R5 | Step-Van | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKNC10KR5 | F-650/750 Chassis Cab | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKNC10RR5 | F-650/750 Chassis Cab | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKNC10PR5 | F-650/750 Chasais Cab | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKNC178R5 | F-650/750 Chassis Cab | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKNA10CR5 | F-450/550 Chassis Ca | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKNA17CR5 | F-450/550 Chassis Cab | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKNA178R5 | F-450/550 Chassis Cab | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN510TR5 | Motor Home | SAME | | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN517TR5 | Motor Home | SAME | | *************************************** | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN5178R5 | Motor Home | SAME | | *************************************** | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN51ATR5 | Motor Home | SAME | EST ANNIBERTAL TANNER SER PROPERTURATION | approphilar sp. upos a photologic philadenic sp. a depotentica | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN516TR5 | Motor Home | SAME | ghall articles and a state of the state of t | | SAME | SAME | SAME | SAME |
| KRIIE06.8BW2 | KKN5168R5 | Motor Home | SAME | *************************************** | | SAME | SAME | SAME | SAME |