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 FAM	ILY	ENGINE SIZES (L)	FUEL TYPE <sup>1</sup>	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS <sup>2</sup>	ECS & SPECIAL FEATURES 3	DIAGNOSTIC *
2019	KCRXE06.4	5Y6	6.4	Gasoline	Otto	HDO	TWC, HO2S, EGR, EGRC, SFI	OBD (P)
PRIMARY	ENGINE'S IDLE	0.0	1 40 1	191125-1107-14 <b>A</b>	DDITIONAL IDLE EI	WISSIONS CO	NTROL <sup>4</sup>	126 - 424
e astronomic	N/A	04.040	OPANER DIVE OF	a prostante munit	N 200 N	/A	an C DRV LLASS SHIT	SUS SUS
ENGINE (L	.)		Sterling and (res	ENGINE MO	DELS / CODES (ra	ted power, in	hp)	21日日期17日日 1
6.4			E	SB / AA300, AA350, A	A400, AA450, AA6	00, AA650 (3	74 for all codes)	FLICKIRL CALL COM
* =not applic L=liter; hp= 1 CNG/LN 2 L/M/H H 3 ECS=em	able; GVWR=gross horsepower; kw=ki IG=compressed/liqu DD=light/medium/he hission control system	wehicle w lowatt; hr afied natur avy heavy m; TWC/	veight rating; 13 CCR =hour; ral gas; LPG=liquefier y-duty diesel; UB=urb DC=three-way/oxidizin	xyz=Title 13, California Cox d petroleum gas; E85=85% van bus; HDO=heavy duty 0 ng catalyst; NAC=NOx adso	de of Regulations, Sec ethanol fuel; MF=mul Otto; orption catalyst; SCR-I	tion xyz; 40 CFI ti fuel a.k.a. BF J / SCR-N=selec	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel; :tive catalytic reduction – urea / – ammonia; W	s, Section 86.abc; /U (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); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/ super charger; CAC=charge air cooler; EGR / EGRC=exhaust gas recirculation / EGR cooler; 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;

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=atternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; WA=not applicable (e.g., Otto engines and vehicles); (2012-08-20)

EMD=engine manufacturer diagnostic system ; OBD(F) / (P) / (\$)=full / partial / partial with 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.).

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	0.08	•	0.10	*	•	*	8.6	*			0.001	•
NTE		•	-	•		*		•		•		•

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: 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 CERTIFICAT	E OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS			
	KCRXEO	5.45Y0-001	Vocational			
In	c	O <sub>2</sub>	. Сн.			
g/bhp-hr	FTP	SET		NzO		
STD	*	*	0.10	0.10		
FCL	668	*	*	*		
FEL	688	*	0.05	0.02		
CERT		*	*			

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; CH4=methane; N2O=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine

0		1
TA	CALIFORNIA	2.
AICHA	AIR RESOURCES BOARD	

**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 40 CFR 1037.104 as specified in Section 1036.100 of the HDOE Test Procedures.

**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 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

2 ALT TOWARD DROP TO TO A MARKET

\_ day of June 2019.

Allen Lyons, Chief

Resultat bas submitted the redukted informationable. Individing has that the critikita nucleasary to recurve a Culture

Emissions Compliance, Automotive Regulations and Science Division

TINNO MODINO DI MARINA