Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2020	LKLXL11.0DDC	11.0	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Exhaust Ammoni	Turbocharger, Charge A Gas Recirculation, Electro Electronic Control M Selective Catalyst Reduc a Oxidation Catalyst, Per Oxidation Cataly	Air Cooler, onic Direct Injection, odule, ction-Urea, iodic Trap Oxidizer, /st	Loader, Dozer, Dump Truck			

The engine models and codes are attached.

CALIFORNIA

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The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
			NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	0.25		0.04	0.002			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

day of June 2019.

Kimbryor

Allen Lyons, Chief Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

ATTACHMENT 1 OF 1

U-R-005-0483 06/12/19

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	6.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
LKLXL11.0DDC	5C01	SAA6D125E-7	333@2000	176	118	1237@1400	239	108	EM,TC,CAC,EGR,DFI,ECM, BCR-U, AMOX, PTOX, OC
LKLXL11.0DDC	5C02	SAA6D125E-7	362@1900	201	125	1114@1400	217	98	EM,TC,CAC,EGR,DFI,ECM, SCR-U, AMOX, PTOX, OC
LKLXL11.0DDC	5C03	SAA6D125E-7	267@1900	152	94	938@1400	186	83	EN,TC,CAC.EOR.DFI.ECM, SCR-U, AMOX, PTOX, OC
LKLXL11.0DDC	5C04	SAA6D125E-7	274@2000	149	99	964@1450	187	88	EM,TC,CAC,EGR,DPI,ECM, SCR-U, AMOX, PTOX, OC
LKLXL11.0DDC	5C05	SAA6D125E-7	405@2000	216	139	1259@1400	244	111	EM, TC, CAC, EGR, DFI, ECM, SCR-U, AMOX, PTOX, OC
LKLXL11.0DDC	5C06	SAA6D125E-7	301@2000	162	108	1003@1400	197	92	EM,TC,CAC.EOR.DPI.ECM, SCR-U, AMOX, PTOX, OC
LKLXL11.0DDC	5C07	SAA6D125E-7	291@1600	187	101	1127@1330	217	97	EM,TC,CAC.EOR.DFI.ECM, SCR-U, AMOX, PTOX, OC