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)	
2019	KDICL05.8LEA	5.89	Diesel	8000	
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A	PPLICATION	

Exhaust Gas Recirculation ,Diesel Oxidation Catalyst, Selective Catalyst Reduction-Urea, Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, DEF Quality Sensor

The engine models and codes are attached.

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The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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		EXHAUST (g/kW-hr)					OPACITY (%)		
	CATEGORY		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 ≤ kW ≤ 560	Tier 4 Final	OPTIONAL STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.03	0.29		0.9	0.02			

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).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

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 December 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

ATTACHMENT 1 OF1

U-R-019-0168 11/21/18

Engine Family	1.Engine Code	2.Engine Model	3.kW@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak kW (for diesel only)	5.Fuel Rate: (kg/hr) @ peak kW 6 (for diesets onlγ)	Torque Nm@ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (kg/hr)@peak torq	9.Emission Control ueDevice Per SAE J1930
KDICL05.8LEA	DL06-LEE02	DL06P	141.2@1900	1,11.3	30.5	804@1400	124.8	25.2 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05 8LEA	DL06-LEE00	DL06P	124.0@1800	103.1	26.7	755@1400	115.7	23.4 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05 8LEA	DL06-LEE01	DL06P	113.2@2000	88.5	25.5	647@1400	98.2	19.8 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05 8LEA	DL06-LEE03	DL06P	129.4@1900	101.0	27.7	755@1400	115.7	23.4 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05.8LEA	DL06-LEE04	DL06P	141.2@1900	111.3	30.5	804@1400	124.8	25.2 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05 8LEA	DL06-LEE05	DL06P	141.2@1900	111.3	30.5	804@1400	124.8	25.2 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05.8LEA	DL06-LEE07	DL06P	102.2@2000	79.7	23.0	588@1400	89.4	18.1 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05.8LEA	DL06-LEL00	DL06P	127.9@2100	96.3	29.2	804@1400	124.8	25.2 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05 8LEA	DL06-LEF00	DL06P	139.7@2100	106.2	32.2	785@1400	120.4	24.3 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05 BLEA	DL06-LEF01	DL06P	128.7@2100	97.1	29.4	726@1400	111.0	22.4 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05.8LEA	DL06-LEL02	DL06P	119@2100	89.7	27.2	736@1400	111.0	22.4 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS
KDICL05 8LEA	DL06-LEL03	DL06P	127.9@2100	96.3	29.2	804@1400	124.8	25.2 EC	GR,DOC,SCR-U,DFI,TC,CAC,ECM,DQS