

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-19-095;

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	LPKXL1.49F2V	1.496	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION		
Indirect Diesel Injection, Electronic Control Module [Engine Code: EK25/2100]		Welder, Mini-Excavator		

The engine models and codes are attached.

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	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT	--	--	5.8	1.4	0.24	5	4	6

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 30TH day of April 2020.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

Engine Model Summary Template

EO#: U-R-022-0243

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Date: 03/30/2020

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: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
LPKXL1.49F2V	EK25/2100	403F-15	24.7@2100	29.4	10.2	93.0@1800	31.4	9.3	IFI, ECM
LPKXL1.49F2V	EK25/2100	C1.5	24.7@2100	29.4	10.2	93.0@1800	31.4	9.3	IFI, ECM
LPKXL1.49F2V	IAM25/2600	N843-F	24.7@2600	23.3	10.0	74.9@1800	23.7	7.0	IFI
LPKXL1.49F2V	N843-F-6301	N843-F	24.7@2400	25.7	10.1	81.0@1800	26.7	7.9	IFI
LPKXL1.49F2V	6658/2400	403F-15	24.7@2400	25.7	10.1	81.0@1800	26.7	7.9	IFI
LPKXL1.49F2V	6658/2400	403F-15	24.7@2400	25.7	10.1	81.0@1800	26.7	7.9	IFI
LPKXL1.49F2V	6656/2600	403F-15	24.7@2600	23.3	10.0	74.9@1800	23.7	7.0	IFI
LPKXL1.49F2V	6656/2200	C1.5	24.7@2600	23.3	10.0	74.9@1800	23.7	7.0	IFI