

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	LCEXL30.0AAE	30.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Selective Catalytic Reduction – Urea, Ammonia Oxidation Catalyst			Loader, Pump, and Compressor	

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):

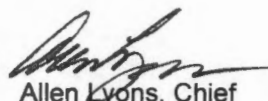
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
kW > 560	Tier 4 Final	STD	0.19	3.5	N/A	3.5	0.04	N/A	N/A	N/A
		CERT	0.01	2.9	--	0.1	0.01	--	--	--

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 18TH day of June 2019.



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

6/17/2014

Engine Model Summary Template

EOT#: ULR-002-0+14

Attachment: Page 1 of 1

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
LCEXL30.0AAE	4811:FR5352	QST30	1370@2100	387	493	4877@1400	440	413	SCR, DDI, TC, ECM, CAC, AMOX
LCEXL30.0AAE	4811:FR5354	QST30	1220@2100	344	439	4389@1400	396	372	SCR, DDI, TC, ECM, CAC, AMOX
LCEXL30.0AAE	4811:FR5313	QST30	1200@2100	282	397	3751@1400	336	316	SCR, DDI, TC, ECM, CAC, AMOX
LCEXL30.0AAE	4811:FR5355	QST30	1050@2100	250	352	3414@1300	310	270	SCR, DDI, TC, ECM, CAC, AMOX
LCEXL30.0AAE	4811:FR5392	QST30	1000@1800	264	319	3414@1300	310	270	SCR, DDI, TC, ECM, CAC, AMOX
LCEXL30.0AAE	4811:FR5398	QST30	950@2100	230	323	3414@1300	311	271	SCR, DDI, TC, ECM, CAC, AMOX