

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)
2021	MMNBL09.0OR4	9.04	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Engine Control Module, Electronic Direct Injection, Turbocharger, Charge Air Cooler, Diesel Oxidation Catalyst, Continuous Trap Oxidizer, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst			Tractors, Harvesters, Loaders, Pumps, Agricultural Equipment, Construction Equipment	

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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	CO	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	0.24	--	0.2	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 on this 29th day of December 2020.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-067-0018

Family: MMNBL09.0OR4

Attachment Last Revised: 12/8/2020

Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel Units	Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
LE121	D1556	N/A	L6	9.04	Liters	305	kilowatt	1900	213	mm3/stroke	1970	N-m	1275	265	mm3/stroke	N/A	N/A	N/A	N/A
LE526	D1556	N/A	L6	9.04	Liters	305	kilowatt	1700	230	mm3/stroke	1970	N-m	1275	264	mm3/stroke	N/A	N/A	N/A	N/A
LE527	D1556	N/A	L6	9.04	Liters	283	kilowatt	1700	214	mm3/stroke	1850	N-m	1275	246	mm3/stroke	N/A	N/A	N/A	N/A
LE528	D1556	N/A	L6	9.04	Liters	261	kilowatt	1700	197	mm3/stroke	1750	N-m	1262	232	mm3/stroke	N/A	N/A	N/A	N/A
LE529	D1556	N/A	L6	9.04	Liters	239	kilowatt	1700	181	mm3/stroke	1650	N-m	1237	218	mm3/stroke	N/A	N/A	N/A	N/A
LE530	D1556	N/A	L6	9.04	Liters	217	kilowatt	1700	165	mm3/stroke	1550	N-m	1180	205	mm3/stroke	N/A	N/A	N/A	N/A