



CUMMINS INC.

EXECUTIVE ORDER U-R-002-0812
New Off-Road
Compression-Ignition Engines

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)
2022	NCEXL30.0AAE	30.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Control Module, Electronic Direct Injection, Turbocharger, Selective Catalytic Reduction - Urea, Charge Air Cooler, Ammonia Oxidation Catalyst			Loaders, Pump, Compressor, Baler and Blender	

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
ELSE > 560 kW	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 on this 20th day of October 2021.

Allen Lyons, Chief
Emissions Certification and Compliance Division

Parent: Engine Models

EO #:

U-R-002-0812

Family:

NCEXL30.0AAE

Attachment Last Rev

9/11/2021

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
QST30	4811:FR5352		V12	30	Liters	1370	horsepower	2100	387	mm3/stroke	4877	lb-ft	1400	440	mm3/stroke				
QST30	4811:FR5354		V12	30	Liters	1220	horsepower	2100	344	mm3/stroke	4389	lb-ft	1400	396	mm3/stroke				
QST30	4811:FR5313		V12	30	Liters	1200	horsepower	2100	282	mm3/stroke	3751	lb-ft	1400	336	mm3/stroke				
QST30	4811:FR5355		V12	30	Liters	1050	horsepower	2100	250	mm3/stroke	3414	lb-ft	1300	310	mm3/stroke				
QST30	4811:FR5392		V12	30	Liters	1000	horsepower	1800	264	mm3/stroke	3414	lb-ft	1300	310	mm3/stroke				
QST30	4811:FR5398		V12	30	Liters	950	horsepower	2100	230	mm3/stroke	3414	lb-ft	1300	311	mm3/stroke				