

CUMMINS INC.

EXECUTIVE ORDER U-R-002-0794-1

New Off-Road Compression-Ignition Engines Page 1 of 2

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	NCEXL03.8AAF	3.8	Diesel	8000				
SPECIA	L FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Diesel Ox Turbocha	nic Control Module, Per xidation Catalyst, Electi arger, Selective Catalyt e Air Cooler, Ammonia	onic Direct Injection, ic Reduction - Urea,	Crane, Loader, Tractor, Dozer, Pump, Compressor, Forklift, Sweeper and Telehandler					

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	EMISSION				EXHAUST (g/kw-ł	OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK	
56 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A	
		CERT	0.01	0.14		0.01	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).

BE IT FURTHER RESOLVED: That for the listed engine models which include engines from different power categories in the same engine family, the manufacturer is complying with the more stringent set of standards from the 56 ≤ kW < 130 power categories in conformance with the incorporated 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.



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Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order hereby supersedes Executive Order U-R-002-0794 dated January 20, 2022.

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 _____day of May 2022.

Allen Lyons, Chief

Johns Shi for

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-002-0794-1 Family: NCEXL03.8AAF Attachment Last Revised: 4/4/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power - Fuel Peak Torque -			Peak Torque -		Peak Torque - Fue	ak Torque - Fuel					
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fuel	Units	OBD	GHG	Special	Notes		
F3.8	OF1	N/A	14	3.8	Liters	173	horsepower	2500	116	mm3/stroke	457	lb-ft	1500	133.5	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF2	N/A	14	3.8	Liters	154	horsepower	2500	102	mm3/stroke	457	lb-ft	1500	133.5	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF3	N/A	14	3.8	Liters	148	horsepower	2500	97.7	mm3/stroke	443	lb-ft	1500	126.9	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF4	N/A	14	3.8	Liters	134	horsepower	2500	89.5	mm3/stroke	406	lb-ft	1500	117.5	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF5	N/A	14	3.8	Liters	121	horsepower	2500	81.4	mm3/stroke	369	lb-ft	1500	106.2	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF6	N/A	14	3.8	Liters	101	horsepower	2500	70.1	mm3/stroke	369	lb-ft	1500	106.2	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF7	N/A	14	3.8	Liters	154	horsepower	2200	112	mm3/stroke	457	lb-ft	1500	133.5	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF8	N/A	14	3.8	Liters	148	horsepower	2200	107.6	mm3/stroke	443	lb-ft	1500	126.9	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF9	N/A	14	3.8	Liters	134	horsepower	2200	98.6	mm3/stroke	406	lb-ft	1500	117.5	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF10	N/A	14	3.8	Liters	121	horsepower	2200	88.8	mm3/stroke	369	lb-ft	1500	106.2	mm3/stroke	N/A	N/A	N/A	N/A		
F3.8	OF11	N/A	14	3.8	Liters	101	horsepower	2200	74.7	mm3/stroke	368	lb-ft	1500	106.2	mm3/stroke	N/A	N/A	N/A	N/A		