

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	NCPXL27.0HXF	27.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Oxidation Catalyst, Exhaust Gas Recirculation			Loader, Tractor, Pump, Off-road Truck, Motor Grader, Shovel, Commercial 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
ELSE>560kW	Tier 4 Final	STD	0.19	3.5	N/A	3.5	0.04	N/A	N/A	N/A
		CERT	0.04	3.1	--	0.01	0.03	--	--	--

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 22nd day of November 2021.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-001-0651

Family: NCPXL27.0HXF

Attachment Last Revised: 11/17/2022

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
C27	Cert Test 1	N/A	V12	27.02	Liters	1046	horsepower	1800	372	lb/hr	3412	lb-ft	1200	263	lb/hr	N/A	N/A	N/A	N/A
C27	1	N/A	V12	27.02	Liters	811	horsepower	1800	283	lb/hr	3182	lb-ft	1200	254	lb/hr	N/A	N/A	N/A	N/A
C27	2	N/A	V12	27.02	Liters	811	horsepower	1800	281	lb/hr	2778	lb-ft	1200	216	lb/hr	N/A	N/A	N/A	N/A
C27	3	N/A	V12	27.02	Liters	759	horsepower	1800	266	lb/hr	2993	lb-ft	1200	235	lb/hr	N/A	N/A	N/A	N/A
C27	4	N/A	V12	27.02	Liters	760	horsepower	1800	266	lb/hr	2556	lb-ft	1200	205	lb/hr	N/A	N/A	N/A	N/A
C27	5	N/A	V12	27.02	Liters	798	horsepower	1800	275	lb/hr	2689	lb-ft	1200	212	lb/hr	N/A	N/A	N/A	N/A
C27	6	N/A	V12	27.02	Liters	874	horsepower	1800	307	lb/hr	2947	lb-ft	1200	234	lb/hr	N/A	N/A	N/A	N/A
C27	7	N/A	V12	27.02	Liters	948	horsepower	1800	330	lb/hr	3200	lb-ft	1200	252	lb/hr	N/A	N/A	N/A	N/A
C27	8	N/A	V12	27.02	Liters	948	horsepower	1800	330	lb/hr	3200	lb-ft	1200	252	lb/hr	N/A	N/A	N/A	N/A
C27	9	N/A	V12	27.02	Liters	752	horsepower	1800	259	lb/hr	2583	lb-ft	1200	211	lb/hr	N/A	N/A	N/A	N/A
C27	10	N/A	V12	27.02	Liters	752	horsepower	1800	259	lb/hr	2583	lb-ft	1200	211	lb/hr	N/A	N/A	N/A	N/A
C27	11	N/A	V12	27.02	Liters	874	horsepower	1800	307	lb/hr	2947	lb-ft	1200	232	lb/hr	N/A	N/A	N/A	N/A
C27	12	N/A	V12	27.02	Liters	797	horsepower	1800	284	lb/hr	2660	lb-ft	1200	206	lb/hr	N/A	N/A	N/A	N/A
C27	13	N/A	V12	27.02	Liters	797	horsepower	1800	284	lb/hr	2660	lb-ft	1200	206	lb/hr	N/A	N/A	N/A	N/A
C27	14	N/A	V12	27.02	Liters	872	horsepower	1800	307	lb/hr	2924	lb-ft	1200	225	lb/hr	N/A	N/A	N/A	N/A
C27	15	N/A	V12	27.02	Liters	872	horsepower	1800	307	lb/hr	2924	lb-ft	1200	225	lb/hr	N/A	N/A	N/A	N/A
C27	16	N/A	V12	27.02	Liters	947	horsepower	1800	333	lb/hr	3171	lb-ft	1200	244	lb/hr	N/A	N/A	N/A	N/A
C27	17	N/A	V12	27.02	Liters	947	horsepower	1800	333	lb/hr	3171	lb-ft	1200	244	lb/hr	N/A	N/A	N/A	N/A
C27	18	N/A	V12	27.02	Liters	1046	horsepower	1800	372	lb/hr	3412	lb-ft	1200	263	lb/hr	N/A	N/A	N/A	N/A
C27	19	N/A	V12	27.02	Liters	1046	horsepower	1800	372	lb/hr	3412	lb-ft	1200	263	lb/hr	N/A	N/A	N/A	N/A
C27	20	N/A	V12	27.02	Liters	811	horsepower	1800	281	lb/hr	2778	lb-ft	1200	216	lb/hr	N/A	N/A	N/A	N/A
C27	21	N/A	V12	27.02	Liters	752	horsepower	1800	257	lb/hr	2583	lb-ft	1200	203	lb/hr	N/A	N/A	N/A	N/A
C27	22	N/A	V12	27.02	Liters	1047	horsepower	1800	362	lb/hr	3418	lb-ft	1200	266	lb/hr	N/A	N/A	N/A	N/A
C27	23	N/A	V12	27.02	Liters	872	horsepower	1800	307	lb/hr	2924	lb-ft	1200	225	lb/hr	N/A	N/A	N/A	N/A
C27	24	N/A	V12	27.02	Liters	811	horsepower	1800	281	lb/hr	3207	lb-ft	1200	247	lb/hr	N/A	N/A	N/A	N/A
C27	25	N/A	V12	27.02	Liters	755	horsepower	1800	260	lb/hr	2590	lb-ft	1200	204	lb/hr	N/A	N/A	N/A	N/A
C27	26	N/A	V12	27.02	Liters	752	horsepower	1800	259	lb/hr	2583	lb-ft	1200	211	lb/hr	N/A	N/A	New Model Added	N/A