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	NCEXL06.7AAQ	6.7	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Control Module, Periodic Trap Oxidizer, Diesel Oxidation Catalyst, Electronic Direct Injection, Turbocharger, Selective Catalytic Reduction - Urea, Charge Air Cooler, Ammonia Oxidation Catalyst	Crane, Loader, Tractor, Dozer, Pump, 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
75 ≤ kW ≤ 560	Tier 4 Final	**STD**	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.02	0.16	--	0.03	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 130 ≤ kW ≤ 560 power category 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.

BE IT FURTHER RESOLVED: That the listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer must submit the necessary data by February 28, 2022 to confirm or correct the certification emissions levels on this conditional certification. Failure to submit the necessary data or resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification and introduced into commerce in the State of California shall be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 14th day of January 2022.

Allen Lyons, Chief
Emissions Certification and Compliance Division

Attachment: Engine Models **EO #:** U-R-002-0808 **Family:** NCEXL06.7AAQ **Attachment Last Revised:** 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
QSB6.7	OB1		I6	6.7	Liters	316	horsepower	2500	159.1	mm3/stroke	1014	lb-ft	1500	98.0	lb/hr				
QSB6.7	OB2		I6	6.7	Liters	300	horsepower	2500	156.5	mm3/stroke	950	lb-ft	1500	91.1	lb/hr				
QSB6.7	OB3		I6	6.7	Liters	326	horsepower	2200	159.0	mm3/stroke	1014	lb-ft	1500	98.0	lb/hr				
QSB6.7	OB4		I6	6.7	Liters	310	horsepower	2200	156.5	mm3/stroke	950	lb-ft	1500	91.1	lb/hr				
QSB6.7	OB5		I6	6.7	Liters	262	horsepower	2500	155.8	mm3/stroke	996	lb-ft	1300	82.5	lb/hr				
QSB6.7	OB6		**I6**	6.7	Liters	260	horsepower	2500	138.2	mm3/stroke	850	lb-ft	1500	79.6	lb/hr				
QSB6.7	OB7		I6	6.7	Liters	225	horsepower	2500	109.2	mm3/stroke	700	lb-ft	1500	64.3	lb/hr				
QSB6.7	OB8		I6	6.7	Liters	200	horsepower	2500	103.2	mm3/stroke	625	lb-ft	1500	57.3	lb/hr				
QSB6.7	OB9		I6	6.7	Liters	173	horsepower	2500	96.3	mm3/stroke	625	lb-ft	1500	57.3	lb/hr				
QSB6.7	OB10		I6	6.7	Liters	280	horsepower	2200	153.7	mm3/stroke	950	lb-ft	1500	90.4	lb/hr				
QSB6.7	OB11		I6	6.7	Liters	260	horsepower	2200	153.7	mm3/stroke	996	lb-ft	1300	82.5	lb/hr				
QSB6.7	OB12		I6	6.7	Liters	225	horsepower	2200	135.6	mm3/stroke	875	lb-ft	1300	71.3	lb/hr				
QSB6.7	OB13		I6	6.7	Liters	225	horsepower	2200	135.6	mm3/stroke	875	lb-ft	1300	71.3	lb/hr				
QSB6.7	OB14		I6	6.7	Liters	225	horsepower	2200	112.5	mm3/stroke	770	lb-ft	1500	71.2	lb/hr				
QSB6.7	OB15		I6	6.7	Liters	200	horsepower	2200	107.2	mm3/stroke	730	lb-ft	1300	58.8	lb/hr				
QSB6.7	OB16		I6	6.7	Liters	280	horsepower	2000	138.2	mm3/stroke	850	lb-ft	1500	79.6	lb/hr				
QSB6.7	OB17		I6	6.7	Liters	250	horsepower	2000	135.6	mm3/stroke	850	lb-ft	1500	79.6	lb/hr				
QSB6.7	OB18		I6	6.7	Liters	173	horsepower	2200	96.3	mm3/stroke	650	lb-ft	1300	52.2	lb/hr				
QSB6.7	OB19		I6	6.7	Liters	173	horsepower	2200	96.3	mm3/stroke	650	lb-ft	1300	52.2	lb/hr				
QSB6.7	OB20		I6	6.7	Liters	173	horsepower	2200	157.4	mm3/stroke	826	lb-ft	1100	58.0	lb/hr				
QSB6.7	OB21		I6	6.7	Liters	155	horsepower	2200	89.4	mm3/stroke	550	lb-ft	1300	44.4	lb/hr				
QSB6.7	OB22		I6	6.7	Liters	232	horsepower	2000	113.5	mm3/stroke	700	lb-ft	1500	64.3	lb/hr				
QSB6.7	OB23		I6	6.7	Liters	195	horsepower	2000	96.3	mm3/stroke	625	lb-ft	1500	57.3	lb/hr				
QSB6.7	OB24		I6	6.7	Liters	225	horsepower	1800	127.1	mm3/stroke	875	lb-ft	1300	71.3	lb/hr				
QSB6.7	OB25		I6	6.7	Liters	302	horsepower	1900	187.7	mm3/stroke	1014	lb-ft	1500	97.6	lb/hr				
QSB6.7	OB26		I6	6.7	Liters	255	horsepower	1900	182.2	mm3/stroke	996	lb-ft	1300	81.7	lb/hr				