

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)
2023	PCPXL09.3NTF	9.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Diesel Oxidation Catalyst, Engine Control Module, Periodic Trap Oxidizer, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst			Loader, Tractor, Compressor, Excavator, Commercial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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
		FEL	--	--		--	0.01	--	--	--
		CERT	0.04	0.19	--	0.2	0.01	--	--	--

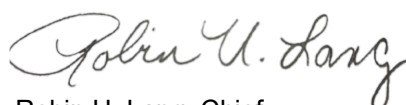
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 12th day of September 2022.



Robin U. Lang, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-001-0662

Family: PCPXL09.3NTF

Attachment Last Revised: 8/26/2022

Model	Code	Trim	Config	Displacement	Displacement -		Peak Power -		Peak Power -		Peak Power -		Peak Torque -		Peak Torque -		Peak Torque - Fuel			
					Units	Liters	Units	horsepower	Speed (rpm)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fuel	Units	OBD	GHG	Special	Notes
C9.3B	Cert Test 1	NA	I6	9.28	Liters	456	horsepower	2000	160	lb/hr	1536	lb-ft	1400	135	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	Cert Test 2	NA	I6	9.28	Liters	408	horsepower	1500	137	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	01	NA	I6	9.28	Liters	335	horsepower	2200	121	lb/hr	1130	lb-ft	1400	97	lb/hr	N/A	N/A	N/A	N/A	
1706J	1A	NA	I6	9.28	Liters	335	horsepower	2200	121	lb/hr	1130	lb-ft	1400	97	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	02	NA	I6	9.28	Liters	375	horsepower	2200	134	lb/hr	1265	lb-ft	1400	108	lb/hr	N/A	N/A	N/A	N/A	
1706J	2A	NA	I6	9.28	Liters	375	horsepower	2200	134	lb/hr	1265	lb-ft	1400	108	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	03	NA	I6	9.28	Liters	416	horsepower	2200	150	lb/hr	1401	lb-ft	1400	121	lb/hr	N/A	N/A	N/A	N/A	
1706J	3A	NA	I6	9.28	Liters	416	horsepower	2200	150	lb/hr	1401	lb-ft	1400	121	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	04	NA	I6	9.28	Liters	456	horsepower	2000	160	lb/hr	1536	lb-ft	1400	135	lb/hr	N/A	N/A	N/A	N/A	
1706J	4A	NA	I6	9.28	Liters	456	horsepower	2000	160	lb/hr	1536	lb-ft	1400	135	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	05	NA	I6	9.28	Liters	314	horsepower	1800	104	lb/hr	1154	lb-ft	1300	93	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	06	NA	I6	9.28	Liters	221	horsepower	2200	84	lb/hr	1100	lb-ft	1200	83	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	6A	NA	I6	9.28	Liters	221	horsepower	2200	84	lb/hr	1100	lb-ft	1200	83	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	07	NA	I6	9.28	Liters	274	horsepower	2200	95	lb/hr	1263	lb-ft	1100	86	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	08	NA	I6	9.28	Liters	314	horsepower	1800	106	lb/hr	1154	lb-ft	1300	95	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	09	NA	I6	9.28	Liters	408	horsepower	1500	137	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	N/A	
1706J	9A	NA	I6	9.28	Liters	408	horsepower	1500	137	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	10	NA	I6	9.28	Liters	456	horsepower	1800	157	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	N/A	
1706J	10A	NA	I6	9.28	Liters	456	horsepower	1800	157	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	11	NA	I6	9.28	Liters	343	horsepower	1500	114	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	N/A	
1706J	11A	NA	I6	9.28	Liters	343	horsepower	1500	114	lb/hr	NA	lb-ft	NA	NA	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	12	NA	I6	9.28	Liters	314	horsepower	1800	106	lb/hr	1154	lb-ft	1300	95	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	13	NA	I6	9.28	Liters	416	horsepower	2200	150	lb/hr	1401	lb-ft	1400	121	lb/hr	N/A	N/A	N/A	N/A	
1706J	13A	NA	I6	9.28	Liters	416	horsepower	2200	150	lb/hr	1401	lb-ft	1400	121	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	14	NA	I6	9.28	Liters	416	horsepower	2200	150	lb/hr	1401	lb-ft	1400	121	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	15	NA	I6	9.28	Liters	294	horsepower	2200	105	lb/hr	1314	lb-ft	1200	99	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	15A	NA	I6	9.28	Liters	294	horsepower	2200	105	lb/hr	1314	lb-ft	1200	99	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	16	NA	I6	9.28	Liters	296	horsepower	2200	106	lb/hr	1375	lb-ft	1200	104	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	16A	NA	I6	9.28	Liters	296	horsepower	2200	106	lb/hr	1375	lb-ft	1200	104	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	17	NA	I6	9.28	Liters	347	horsepower	1900	118	lb/hr	1171	lb-ft	1400	102	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	18	NA	I6	9.28	Liters	294	horsepower	2200	105	lb/hr	1314	lb-ft	1200	99	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	19	NA	I6	9.28	Liters	296	horsepower	2200	106	lb/hr	1375	lb-ft	1200	104	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	20	NA	I6	9.28	Liters	414	horsepower	1800	139	lb/hr	1396	lb-ft	1400	121	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	21	NA	I6	9.28	Liters	414	horsepower	1800	139	lb/hr	1396	lb-ft	1400	121	lb/hr	N/A	N/A	N/A	N/A	
C9.3B	22	NA	I6	9.28	Liters	294	horsepower	2200	105	lb/hr	1314	lb-ft	1200	99	lb/hr	N/A	N/A	N/A	N/A	