

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	PJDXL13.5310	13.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Charge Air Cooler, Oxidation Catalyst, Electronic Direct Injection, Electronic Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Turbocharger, Selective Catalyst Reduction-Urea, Ammonia Oxidation Catalyst			Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator Set, Other Industrial 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 (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
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		FEL	N/A	N/A	N/A	N/A	0.01	--	--	--
		CERT	0.03	0.11	--	0.1	0.003	--	--	--

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 December 2022.



Robin U. Lang, Chief
Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-004-0657

Family: PJDXL13.5310

Attachment Last Revised: 12/2/2022

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 Units	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
6135	6135CI550A		I-6	13.5	Liters	460	kilowatt	1900	339.2	mm3/stroke	2750	N-m	1550	386.1	mm3/stroke	N/A	N/A		
6135	6135CI550B		I-6	13.5	Liters	432	kilowatt	1700	337.2	mm3/stroke	2640	N-m	1550	363.2	mm3/stroke	N/A	N/A		
6135	6135CI550C		I-6	13.5	Liters	459	kilowatt	1900	340.8	mm3/stroke	2640	N-m	1550	362.9	mm3/stroke	N/A	N/A		
6135	6135CI550D		I-6	13.5	Liters	409	kilowatt	1700	322	mm3/stroke	2520	N-m	1550	347.8	mm3/stroke	N/A	N/A		
6135	6135CI550E		I-6	13.5	Liters	439	kilowatt	1900	320.8	mm3/stroke	2520	N-m	1550	345.6	mm3/stroke	N/A	N/A		
6135	6135CI550F		I-6	13.5	Liters	394	kilowatt	1700	307.2	mm3/stroke	2397	N-m	1550	328.6	mm3/stroke	N/A	N/A		
6135	6135CI550G		I-6	13.5	Liters	418	kilowatt	1900	300.4	mm3/stroke	2397	N-m	1550	328.2	mm3/stroke	N/A	N/A		
6135	6135CI550H		I-6	13.5	Liters	355	kilowatt	1700	263.8	mm3/stroke	2160	N-m	1550	292.9	mm3/stroke	N/A	N/A		
6135	6135CI550I		I-6	13.5	Liters	376	kilowatt	1900	265.6	mm3/stroke	2160	N-m	1550	293.7	mm3/stroke	N/A	N/A		
6135	6135CI550J		I-6	13.5	Liters	335	kilowatt	1700	232.7	mm3/stroke	2037	N-m	1550	277.8	mm3/stroke	N/A	N/A		
6135	6135CI550K		I-6	13.5	Liters	361	kilowatt	1900	254.8	mm3/stroke	2037	N-m	1550	277.9	mm3/stroke	N/A	N/A		
6135	6135CI550L		I-6	13.5	Liters	326	kilowatt	1700	229	mm3/stroke	1986	N-m	1550	271.7	mm3/stroke	N/A	N/A		
6135	6135CI550M		I-6	13.5	Liters	352	kilowatt	1900	247.8	mm3/stroke	1985	N-m	1550	270.6	mm3/stroke	N/A	N/A		
6135	6135HDW20		I-6	13.5	Liters	460	kilowatt	2000	322.1	mm3/stroke	2750	N-m	1550	381.3	mm3/stroke	N/A	N/A		
6135	6135HDW21		I-6	13.5	Liters	460	kilowatt	2100	313.4	mm3/stroke	2750	N-m	1550	381.3	mm3/stroke	N/A	N/A		
6135	6135HDW22		I-6	13.5	Liters	460	kilowatt	1800	344.1	mm3/stroke	2750	N-m	1550	383.5	mm3/stroke	N/A	N/A		
6135	6135HFG09-A		I-6	13.5	Liters	473	kilowatt	1800	361	mm3/stroke	2509	N-m	1800	361	mm3/stroke	N/A	N/A		
6135	6135HFG09-B		I-6	13.5	Liters	411	kilowatt	1800	306	mm3/stroke	2180	N-m	1800	306	mm3/stroke	N/A	N/A		
6135	6135HFG09-C		I-6	13.5	Liters	356	kilowatt	1800	265	mm3/stroke	1889	N-m	1800	265	mm3/stroke	N/A	N/A		
6135	6135HH011		I-6	13.5	Liters	460	kilowatt	1900	320.6	mm3/stroke	2750	N-m	1550	405	mm3/stroke	N/A	N/A		
6135	6135HN008		I-6	13.5	Liters	460	kilowatt	1900	340.8	mm3/stroke	2750	N-m	1550	396.1	mm3/stroke	N/A	N/A		
6135	6135HPRNT3		I-6	13.5	Liters	499	kilowatt	1725	383	mm3/stroke	2920	N-m	1550	410	mm3/stroke	N/A	N/A		
6135	6135HT011		I-6	13.5	Liters	460	kilowatt	1900	340.8	mm3/stroke	2750	N-m	1550	381.3	mm3/stroke	N/A	N/A		
6135	6135HZ022		I-6	13.5	Liters	460	kilowatt	1900	340.8	mm3/stroke	2750	N-m	1550	405	mm3/stroke	N/A	N/A		