



DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0651  
New Off-Road  
Compression-Ignition Engines

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	PJDXL13.5334	13.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Charge Air Cooler, Oxidation Catalyst, Direct Fuel Injection, Electronic Control Module, Exhaust Gas Recirculation, Turbocharger, Selective Catalyst Reduction-Urea, Ammonia Oxidation Catalyst			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	<b>STD</b>	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		<b>CERT</b>	0.05	0.26	--	0.02	0.02	--	--	--

**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 18th day of October 2022.

Robin U. Lang, Chief  
Emissions Certification and Compliance Division

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
6136	6136CG440A		I-6	13.5	Liters	505	kilowatt	1800	372.2	mm3/stroke	2679	N-m	1800	372.2	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136CG440B		I-6	13.5	Liters	505	kilowatt	1500	440.1	mm3/stroke	3215	N-m	1500	440.1	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136CI440A		I-6	13.5	Liters	421	kilowatt	1900	288.5	mm3/stroke	2495	N-m	1550	330.3	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136CI440B		I-6	13.5	Liters	446	kilowatt	1800	318.9	mm3/stroke	2745	N-m	1550	368.9	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136CI440C		I-6	13.5	Liters	495	kilowatt	1800	360.2	mm3/stroke	3050	N-m	1550	419.2	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136CI440D		I-6	13.5	Liters	510	kilowatt	2100	318.5	mm3/stroke	3050	N-m	1550	408.6	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136HI440A		I-6	13.5	Liters	324	kilowatt	1900	227.4	mm3/stroke	1986	N-m	1550	267.4	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136HI440B		I-6	13.5	Liters	363	kilowatt	1900	252.4	mm3/stroke	2192	N-m	1550	294.7	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136HI440C		I-6	13.5	Liters	403	kilowatt	1900	278.7	mm3/stroke	2397	N-m	1550	320.3	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136HI440D		I-6	13.5	Liters	415	kilowatt	1800	300.4	mm3/stroke	2510	N-m	1550	334.2	mm3/stroke	N/A	N/A		A/T Orientation can be either Horizontal or Vertical
6136	6136HPRNT3A		I-6	13.5	Liters	552	kilowatt	1900	377	mm3/stroke	3307	N-m	1550	446	mm3/stroke	N/A	N/A		A/T Orientationis Vertical
6136	6136HX403		I-6	13.5	Liters	515	kilowatt	1900	350.8	mm3/stroke	3050	N-m	1550	408.6	mm3/stroke	N/A	N/A		A/T Orientation is Horizontal
6136	6136HX404		I-6	13.5	Liters	470	kilowatt	1700	354.6	mm3/stroke	2800	N-m	1550	372.5	mm3/stroke	N/A	N/A		A/T Orientation is Horizontal
6136	6136NW401		I-6	13.5	Liters	470	kilowatt	1700	354.6	mm3/stroke	2800	N-m	1550	372.5	mm3/stroke	N/A	N/A		A/T Orientation is Horizontal
6136	6136NX401		I-6	13.5	Liters	470	kilowatt	1700	354.6	mm3/stroke	2800	N-m	1550	372.5	mm3/stroke	N/A	N/A		A/T Orientation is Horizontal
6136	6136RX402		I-6	13.5	Liters	470	kilowatt	1700	354.6	mm3/stroke	2800	N-m	1550	372.5	mm3/stroke	N/A	N/A		A/T Orientation is Vertical
6136	6136RX403		I-6	13.5	Liters	515	kilowatt	1700	391.2	mm3/stroke	3050	N-m	1550	408.6	mm3/stroke	N/A	N/A		A/T Orientation is Vertical
6136	6136RX404		I-6	13.5	Liters	515	kilowatt	1700	391.2	mm3/stroke	3050	N-m	1550	408.6	mm3/stroke	N/A	N/A		A/T Orientation is Vertical