

JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0638

New Off-Road Compression-Ignition Engines Page 1 of 1

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	PJDXL18.0341	18.0	Diesel	8000							
SPECIAL	. FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION								
	ronic Control Module, E Turbocharger, Charge Gas Recirculati	Air Cooler, Exhaust	Loader, Tractor, Dozer, Pump, Compressor, Other Industrial 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 (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	EMISSION			I	EXHAUST (g/kw-l		OPACITY (%)				
CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK	
ELSE > 560 kW	Tier 4 Final	STD	0.19	3.5	N/A	3.5	0.04	N/A	N/A	N/A	
		FEL					0.07				
		CERT	0.05	3.0		0.3	0.07				

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 8th day of April 2022.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-004-0638 Family: PJDXL18.0341 Attachment Last Revised: 8/12/2022

					Displacement -		Peak Power -	Peak Power -	Peak Power -	Peak Power -		Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -				
Model	Code	Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Fuel Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	OBD	GHG	Special	Notes
6180	6180HPRNT1		I-6	18	Liters	713	kilowatt	1700	572	mm3/stroke	4559	N-m	1400	630.9	mm3/stroke	N/A	N/A		
6180	6180WG501A		I-6	18	Liters	580	kilowatt	1800	449.5	mm3/stroke	3922	N-m	1400	543.1	mm3/stroke	N/A	N/A		
6180	6180WG501B		I-6	18	Liters	627	kilowatt	1900	466.7	mm3/stroke	4250	N-m	1400	581.9	mm3/stroke	N/A	N/A		
6180	6180WG501C		I-6	18	Liters	600	kilowatt	1900	446.4	mm3/stroke	4092	N-m	1400	562.7	mm3/stroke	N/A	N/A		
6180	6180ZX401		I-6	18	Liters	676	kilowatt	1900	505.7	mm3/stroke	4300	N-m	1400	588.1	mm3/stroke	N/A	N/A		
6180	6180CI510A		I-6	18	Liters	677	kilowatt	1750	538.1	mm3/stroke	4250	N-m	1400	585	mm3/stroke	N/A	N/A		new model
6180	6180CI510B		I-6	18	Liters	660	kilowatt	1700	524.5	mm3/stroke	4070	N-m	1450	561.9	mm3/stroke	N/A	N/A		new model
6180	6180CI510C		I-6	18	Liters	640	kilowatt	1700	509	mm3/stroke	3873	N-m	1450	536.8	mm3/stroke	N/A	N/A		new model
6180	6180CI510D		I-6	18	Liters	600	kilowatt	1700	477.6	mm3/stroke	3675	N-m	1450	513.5	mm3/stroke	N/A	N/A		new model
6180	6180CI510E		I-6	18	Liters	572	kilowatt	1700	455.8	mm3/stroke	3317	N-m	1400	465.7	mm3/stroke	N/A	N/A		new model