

JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0628

New Off-Road
Compression-Ignition Engines
Page 1 of 2

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	NJDXL09.0313	9.0	Diesel	8000				
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Direct Inje Gas Reci	Air Cooler, Oxidation C ection, Electronic Contr rculation, Turbocharger tion-Urea, Ammonia Ox	ol Module, Exhaust , Selective Catalyst	Pump, Compressor, Generator Set, Other Steady State 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	EMISSION			E	EXHAUST (g/kw-l	OPACITY (%)				
CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
130 <u><</u> kW <u><</u> 560	Tier 4 Final	Final STD		0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.004	0.10	-	0.01	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).

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 March 31, 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.



JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0628

New Off-Road
Compression-Ignition Engines
Page 2 of 2

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 9th day of January 2022.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-004-0628 Family: NJDXL09.0313 Attachment

Attachment Last Revised: 11/16/2021

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
	6090HFG06A	111111															_	Special	Notes
6090	6090HFG06A	-	I-6	9.0	Liters	345 300	kilowatt	1800 1500	263.2 269.8	mm3/stroke	1830	N-m	1800 1500	263.2 269.8	mm3/stroke	N/A	N/A		+
6090		-			Liters		kilowatt			-	1910	N-m			mm3/stroke	N/A	N/A		+
6090	6090HFG06C	-	1-6	9.0	Liters	326	kilowatt	1800	247.5	mm3/stroke	1731	N-m	1800	247.5	mm3/stroke	N/A	N/A		+
6090	6090HFG06D	-	1-6	9.0	Liters	300	kilowatt	1500	269.5	mm3/stroke	1910	N-m	1500	269.5	mm3/stroke	N/A	N/A		+
6090	6090HFG06E	-	1-6	9.0	Liters	273	kilowatt	1800	201.3	mm3/stroke	1448	N-m	1800	201.3	mm3/stroke	N/A	N/A		+
6090	6090HFG06F	-	1-6	9.0	Liters	273	kilowatt	1500	243	mm3/stroke	1737	N-m	1500	243	mm3/stroke	N/A	N/A		+
6090	6090HPRNT7	-	I-6	9.0	Liters	364	kilowatt	1800	277.6	mm3/stroke	1934	N-m	1800	277.6	mm3/stroke	N/A	N/A		+
		-				-											-		+
		+														-	-		+
		+														-	-		+
		+														-	-		+
		-															-		
		-															-		
		-															-		
		-																-	
																		-	
																		-	
		-														-	-		
	-					-													