

DEERE & COMPANY

EXECUTIVE ORDER: U-R-004-0660

New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the California Air Resources Board by Health and Safety Code Division 26, Part 5, Chapters 1 and 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: The engines and emission control systems produced by the manufacturer as described below are certified 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	Combustion Cycle	Fuel Operation	Fuel Type(s)	Engine Operation		
2024	RJDXL02.9318	Diesel	Dedicated	Diesel	Variable and Constant Speed		

Emission Control Systems							
[1]: Electronic Direct Injection (DDI), Charged Air Cooler (CAC), Electronic Control Module (ECM), Turbocharger (TC), Diesel Oxidation Catalyst (DOC), Periodic Trap Oxidizer (PTOX)	None						

The certified engine models are attached.

The listed engine models comply with the following: 1) emission standard limits (STD) and Not-To-Exceed (NTE) limits, as applicable, for criteria pollutants non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM), and for smoke opacity as demonstrated during the Acceleration (ACL) and Lugging (LUG) modes, and the peak value (PEAK) in either mode of the Smoke Opacity cycle, as set forth in 13 CCR 2423 and the applicable California test procedures for off-road compression-ignition engines, and 2) family emission limits (FEL) declared by the manufacturer as allowed by the applicable California test procedures, stated in units of gram per kilowatthour (g/kWh-hr) and percent opacity (%opacity), respectively, except as noted, or designated as not applicable (*).

	Crit	Smoke Opacity					
Applicable Standard	NMHC+NOx	СО	PM	ACL	LUG	PEAK	
	STD	4.7	5.0	0.03	*	*	*
Tier 4 Final 37 ≤ kW < 56	FEL	*	*	*	*	*	*
07 = KVV + 00	NTE	5.9	6.2	0.04	*	*	*

BE IT FURTHER RESOLVED: Any declared FEL is the emission limit to which all engines must comply in lieu of the standard limit for certification purposes, subject to the restrictions of averaging, banking, or trading (ABT) programs allowed by the applicable California test procedures.

BE IT FURTHER RESOLVED: That the manufacturer has elected to combine engines from the $19 \le kW < 56$ power categories into a single engine family. The listed engine models comply with the more stringent set of standards of the $37 \le kW < 56$ power category in accordance with Section 1039.230(e) of the applicable California test procedures.

BE IT FURTHER RESOLVED: For the listed engine models, the manufacturer has submitted materials to demonstrate certification compliance with 13 CCR 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models may only be installed in or on equipment such that engine operation is consistent with off-road compression-ignition engines as defined in 13 CCR 2421(a)(39).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed on this ___/8th____ day of August 2023.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

ATTACHMENT: ENGINE MODELS

Family: RJDXL02.9318 EO Number: U-R-004-0660 Date Applicable: 7/26/2023

					Peak Power		I	Peak Torque					
Model	Code	Trim	Config	Displacement	Power	Speed	Fueling	Torque	Speed	Fueling	ECS Num	GHG	Notes
-	-	=	-	Liters	kilowatt	rpm	mm3/stroke	N-m	rpm	mm3/stroke	-	-	=
3029	3029HG530A		I-3	2.9	55	1800	96.5	292	1800	96.5	1	N/A	
3029	3029HG530B		I-3	2.9	48	1800	84.6	255	1800	84.6	1	N/A	
3029	3029HG530C		I-3	2.9	36	1800	64.1	191	1800	64.1	1	N/A	
3029	3029HG530D		I-3	2.9	48	1500	96.2	305	1500	96.2	1	N/A	
3029	3029HG530E		I-3	2.9	36	1500	75.5	229	1500	75.5	1	N/A	
3029	3029HI530A		I-3	2.9	55	2400	77	293	1500	60.6	1	N/A	
3029	3029HI530B		I-3	2.9	55	2200	84.4	304	1500	68.3	1	N/A	
3029	3029HI530C		I-3	2.9	48	2400	68	255	1550	54.1	1	N/A	
3029	3029HI530D		I-3	2.9	48	2200	74.2	278	1550	64.1	1	N/A	
3029	3029HI530E		I-3	2.9	36	2400	54.5	193	1550	41.4	1	N/A	
3029	3029HI530F		I-3	2.9	36	2200	56.4	207	1550	48.1	1	N/A	
3029	3029HP530A		I-3	2.9	55	1800	96.5	292	1800	96.5	1	N/A	
3029	3029HP530B		I-3	2.9	48	1800	84.6	255	1800	84.6	1	N/A	
3029	3029HP530C		I-3	2.9	36	1800	64.1	191	1800	64.1	1	N/A	
3029	3029HP530D		I-3	2.9	48	1500	96.2	305	1500	96.2	1	N/A	
3029	3029HP530E		I-3	2.9	36	1500	75.5	229	1500	75.5	1	N/A	
3029	3029HPRNT2		I-3	2.9	55	2400	77.8	320	1600	105.5	1	N/A	
3029	3029HPY101		I-3	2.9	55	2100	82.8	304	1550	95.3	1	N/A	
3029	3029HPY96		I-3	2.9	55	2200	80.6	304	1550	95.7	1	N/A	
3029	3029HPY97		I-3	2.9	55	2200	80.6	304	1550	95.7	1	N/A	
3029	3029HPY98		I-3	2.9	55	2100	82.8	304	1550	95.3	1	N/A	
3029	3029WG501		I-3	2.9	48	2200	74.2	278	1550	64.1	1	N/A	