

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)
2020	LJDXL02.9318	2.9	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Control Module, Electronic Direct Injection, Periodic Trap Oxidizer, Turbocharger, Charge Air Cooler, Oxidation Catalyst			Loaders, 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):

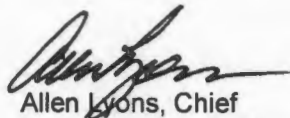
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	4.2	0.1	0.01	--	--	--

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 at El Monte, California on this 17TH day of December 2019.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

EO#: U-R-004-0585

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8/30/2019

Engine Model Summary Form

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: LJDXL02.9318
 Mfr Family Name: 320HCB
 Process Code: New Submission

1. Engine code	2. Engine Model	3. kW@RPM (SAE Gross)	4. Fuel Rate:	5. Fuel Rate:	6. Torque (Nm)	7. Fuel Rate:	8. Fuel Rate:	9. Emission Control Device Per SAE J1930
			mm/stroke@peak kW (for diesel only)	(kg/hr)@peak kW (for diesels only)	@RPM (SEA Gross)	mm/stroke@peak torque	(kW/hr)@peak torque	
3029HPRNT2	3029	55@2400	77.8@2400	14.3@2400	320@1600	105.5@1600	12.9@1600	PTOX OC TC DFI CAC ECM
3029HPY98	3029	55@2200	80.6@2200	13.6@2200	304@1550	95.7@1550	11.3@1550	PTOX OC TC DFI CAC ECM
3029HPY97	3029	55@2200	80.6@2200	13.6@2200	304@1550	95.7@1550	11.3@1550	PTOX OC TC DFI CAC ECM
3029HPY98	3029	55@2100	82.8@2100	13.3@2100	304@1550	95.3@1550	11.3@1550	PTOX OC TC DFI CAC ECM
3029HPY101	3029	55@2100	82.8@2100	13.3@2100	304@1550	95.3@1550	11.3@1550	PTOX OC TC DFI CAC ECM
3029HGS30A	3029	55@1800	96.5@1800	13.3@1800	X	X	X	PTOX OC TC DFI CAC ECM
3029HGS30B	3029	48@1800	84.6@1800	11.6@1800	X	X	X	PTOX OC TC DFI CAC ECM
3029HGS30C	3029	36@1800	64.1@1800	8.8@1800	X	X	X	PTOX OC TC DFI CAC ECM
3029HGS30D	3029	48@1500	96.2@1500	11.0@1500	X	X	X	PTOX OC TC DFI CAC ECM
3029HGS30E	3029	36@1500	75.5@1500	8.7@1500	X	X	X	PTOX OC TC DFI CAC ECM
3029HI530A	3029	55@2400	77@2400	14.1@2400	293@1500	90.6@1500	11.1@1500	PTOX OC TC DFI CAC ECM
3029HI530B	3029	55@2200	84.4@2200	14.2@2200	304@1500	68.3@1500	11.5@1500	PTOX OC TC DFI CAC ECM
3029HI530C	3029	48@2400	68@2400	12.5@2400	355@1500	34.7@1500	9.9@1500	PTOX OC TC DFI CAC ECM
3029HI530D	3029	48@2200	74.2@2200	12.5@2200	278@1550	64.1@1550	10.8@1550	PTOX OC TC DFI CAC ECM
3029HI530E	3029	36@2400	54.5@2400	10.0@2400	393@1550	41.4@1550	7.9@1550	PTOX OC TC DFI CAC ECM
3029HI530F	3029	36@2200	56.4@2200	9.5@2200	207@1550	48.1@1550	8.1@1550	PTOX OC TC DFI CAC ECM
3029IP530A	3029	55@1800	96.5@1800	13.3@1800	X	X	X	PTOX OC TC DFI CAC ECM
3029IP530B	3029	48@1800	84.6@1800	11.6@1800	X	X	X	PTOX OC TC DFI CAC ECM
3029IP530C	3029	36@1800	64.1@1800	8.8@1800	X	X	X	PTOX OC TC DFI CAC ECM
3029IP530D	3029	48@1500	96.2@1500	11.0@1500	X	X	X	PTOX OC TC DFI CAC ECM
3029IP530E	3029	36@1500	75.5@1500	8.7@1500	X	X	X	PTOX OC TC DFI CAC ECM