

JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0583 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-14-012;

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	LJDXL09.0319	9.0	Diesel			
	L FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Injection, P Electronic (Air Cooler, Oxidation Cat eriodic Trap Oxidizer, Ex Control Module, Turboch Juction-Urea, Ammonia C	haust Gas Recirculation, larger, Selective Catalytic	Loaders, Tractor, Dozer, Pump, Compressor, Generator Set, Excavators, Sprayers			

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	EMISSION		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
A STATE OF THE STA	<u> </u>	CERT	0.01	0.09	***	0.04	0.001	_		

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

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Allen Lyons, Chief

⁷Emissions Compliance, Automotive Regulations and Science Division

FO#: U-R-004-0583 Attachment: Page 10f1

5/13/2019

Engine Model Summary Form

Engine category EPA Engine Family: LJDXL09.0319 Vitr Family Name:

Nonroad Cl 450HCL

Pro	cess Code:	New Submission								
			3. kW@RPM	4. Fuel Rate: mm/stroke@peak		6. Torque (Nm) @RPM	7. Fuel Rate: mm/stroke@peak	8. Fuel Rate:	Emission Control Device Per	
	1. Engine code	2. Engine Model	(SAE Gross)	(for diesel only	y) (for diesels only)	(SEA Gross)	torque	(kW/lv)@peak torque	SAE 11020	000
	6090HPRNT11	8090 6090	368@2200 335@2100	227@2200 213@2100	78.4@2200 68.4@2100	2036@1550 1851@1550	278@1550 250@1550	65.7@1550 61@1550	EGR PTOX OC SORC NHISOC ECM OF TO CA	c, SCA-4
5.5		5090	278@2100	172.3@2100	and the second of the second o	1687@1550	225.3(2)1560	53.4@1550	EGR PTOX OC SCHENEDOC ECHI DELTC CA	
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