

JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0596 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-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	LJDXL13.5300	13.5	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Charge Air Cooler, Oxidation Catalyst, Electronic Direct Injection, Electronic Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Turbocharger, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst			Crane, Tractor, Loaders, Dozer, Pump, Compressor, Generator Set, 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, Califomia Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER	STANDARD		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
		FEL		***	-		0.01			
		CERT	0.03	0.06		0.03	0.003			

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

Allen Lyons, Chief

Emissions Certification and Compliance Division

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EO#: 4-R-004-0596

Engine Model Summary Form

ohn Deere Power Systems

Nonroad CI EPA Engine Family: LJDXL13.5300

50H	ICA	
low	Submission	

1. Engine code 6135HPRNT2 6135HT007 6135HT008	2 Engine Model 6135 6135 6135	3. kW@RPM (SAE Gross) 489@2100 296@2000 296@2000	4. Fuel Rate: mm/stroke@peak kW (for diesel only) .337.6@2100 .205.8@2000 .205.8@2000	5. Fuel Rate: (kg/hr)@peak kW (for diesels only) 108.4@2100 62.9@2000 52.9@2000	6. Torque (Nm) @RPM (SEA Gross) 2902@1550 2099@1500	7. Fuel Rate: mm/stroke@peak torque 418.5@1550 290.2@1500 290.2@1500	6. Fuel Rate: (kWihr)@peak torque 98.7@1550 96.5@1500	9. Emission Control Device Per SAE J1930 EGR ECM PTOX OC SCRC NH3OC DFITC CAC EGR ECM PTOX OC SCRC NH3OC DFITC CAC **EGR ECM PTOX OC SCRC NH3OC DFITC CAC
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