JOHN	DEERE	POWER	SYSTEMS
001114	DEFILE	FOWER	

California Environmental Protection Agency

Pursuant to the authority vested in the 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)		
2017	HJDXL13.5310	13.5	Diesel	8000		
SPECIAL	FEATURES & EMISSION O	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, 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), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), 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	со	PM	ACCEL	LUG	PEAK
130 <u>≤</u> kW <u>≤</u> 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	0.11		0.1	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 January 2017.

Annette Hebert. Chief

Emissions Compliance, Automotive Regulations and Science Division

**Engine Model Summary Form** 

Manufacturer:	John Deere Power Systems
Engine category:	Nonroad Cl
EPA Engine Family:	HJDXL13.5310
Mfr Family Name:	650HCB
Process Code:	Running Change

			<ol><li>Fuel Rate;</li></ol>	<ol><li>Fuel Rate:</li></ol>	6. Torque (Nm)	<ol><li>Fuel Rate:</li></ol>		9. Emission Control
		3. kW@RPM	mm/stroke@peak kW	(kg/hr)@peak kW	@RPM	mm/stroke@peak	8, Fuel Rate:	Device Per
1. Engine code	2. Engine Model	(SAE Gross)	(for diesel only)	(for diesels only)	(SEA Gross)	torque	(kW/hr)@peak torque	SAE J1930
6135HDW15	61353	460@2000	322.1@2000	98.5@2000	2750@1550	381.3@1550	90.4@1550	EGR PTOX OC SCRO NH3OC DELTC CAC ECM
6135HDW16	6135	460@2100	313.4@2100	100.6@2100	2750@1550	381.3@1550	90.4@1550	EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135HEC00-R	6135	440@2100	276 4/22100	88 7@2100	2640@1550	363.2@1550	86 1/01550	EGR PTOX OC SCRONH3OC DELTC CAC ECM
6135HEC09-C	6135	410@2100	275.6@2100	88.502100	2640@1550	362 9@1550	202186@1550	EGR FTOX OC SCRC NH30C DENTC CAC ECM
6135HFC09-D	6135	392@2100	264.8@2100	85@2100	2520@1550	347.8@1550	82.4@1550	EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135HFC09-E		392@2100	264.8@2100	85@2100	2520@1550	345.6@1550	81.9@1550	EGRIPTOX OC SCRC NH3OC DFITC CAC ECM
6135HFC09-F	6135	373@2100	252@2100	80.9@2100	2397@1550	328.6@1550	77.9@1550	EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135HFC09-G P	(4	373@2100	25117@2100	80.8@2100	na 2397@1550	328.2@1550	77.8@1550	EGR PTOX OO SCRC NH3OC DELTC CAG ECM
6135HFC09-H	6135	336@2100	224.6@2100	72.1@2100	2160@1550	292.9@1550	69@1550	EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135HEC094	6425	317@2100	213 1@2100	6P 7@2100	2027@1550.20	277 9@1550	65 P@1550	EGRIPTOX OCISERENH30C DELTC CAC ECM
0 130HPC09-3	6135	317@2100	213.0@2100	68 8 62100	2037@1050	277.0@1000	00.0001000	FOR FTOX OC SCRONHSOC DELTC CASE FOM
6135HFC09-L	6135	309@2100	209.7@2100	67.3@2100	1986@1550	271.7@1550	64.4@1550	EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135HFC09-M	6135	309@2100.	210 3@2100 645	67.5@2100	1985@1550	270.6@1550%	64.1@1550	EGRIPTION OC SCRONH3OC DELTC CAG ECM
6135HFG09-A	6135	473@1800	361@1800	99.3@1800	$\sim$	$\mathbf{X}$	$\sim$	EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135HFG09-B	an - 7 - 6135, Store 1	411@1800	306@1800.51	84,3@1800	X	$\sim$	$\mathbf{X}$	FEGRIPTION OC SCRC NH3OC DFLTC CAC ECM1
6135HFG09-C	6135	356@1800	265@1800	73@1800		CONTRACTOR OF		EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135HH008	6135	460@2100	320.5@2100	102,9(02100	2750@1000	396 1@1550	03.0@1000	EGRIPTOX OCISCRONH3OCIDELTC CAC ECM
6135HPRMT3	6135	490@2100	340@2100	102.002100	2100@1000	410@1550	97@1550	EGR PTOX OC SCRONH30C DEHTC CAO ECM
*6135HZ016	6135	460@2100	320.6@2100	102.9@2100	2750@1550	405@1550	96@1550	EGR PTOX OC SCRC NH3OC DFI TC CAC ECM
6135RW405			320.6@2100	102.9@2100.4	2750@1550	405@1550	96@1550	EGRIPTOX OG SCRC NH3OC DFITC CAC ECM
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