California Environmental Protection Agency	JOHN DEERE
De Air Resources Board	

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)		
2015	FJDXL06.8210	4.5, 6.8	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Charge Ai Injection Recircu	r Cooler, Oxidation Catal n, Electronic Control Moo lation, Periodic Trap Oxi Limiter, Turbocha	yst, Electronic Direct lule, Exhaust Gas dizer, Smoke Puff ger	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 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	со	РМ	ACCEL	LUG	PEAK
75 <u>≤</u> kW < 130	Tier 4 Final / ALT 20% NOx	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		FEL		3.20						
		CERT	0.000	3.10		0.1	0.01			

**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 2014.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

A Haulmont: Page lofi Fo#: U-R-004-0498 10-29-2017

**Engine Model Summary Form** 

Manufacturer:	John Deere Powe	r Systems							
Engine category:	Nonroad Cl								
EPA Engine Family:	FJDXL06.8210								
Mfr Family Name:	350HBB						·.		
Process Code:	New Submission								
1100033 0000.	New Cubinosion								
			4. Fuel Rate:	5. Fuel Rate:	6. Torque (Nm)	7. Fuel Rate:		9. Emission Control	
		3 kW@RPM	mm/stroke@neak.kW	/kg/hr)@peak.kW	@RPM	mm/stroke@neak	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	•
24045HDW58	4045	129@2200	125.0@2200	28.0@2200	645@1600	144@1600	24.0@1600	EGR EM EC SPL DE TC CAC OC	PTOX
4045HP057	4045	129@2200	124.8@2200	28.0@2200	650@1550	142.3@1550	22.5@1550	EGR EM EC SPL DFI TO CAC OC	PTOX
4045HPRNT7	4045	129@2400	113.8@2400	27.9@2400	670@1600	150:3@1600	24.5@1600	EGR EN EC SPL DELTC CAC OC	PTOX
4045HT069	4045	111@2200	117.5@2200	24.3@2200	482@1600	143.1@1600	22.8@1600	EM EGR EC SPL DFI TC CAC OC	PTOX
6068HT089	6068	129@1900	94.6@1900	27.5@1900	768@1400.	110.6@1400	23.7@1400	EGRIEM EC SPL DELTC CAC OC	PTOX*
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