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	FJDXL09.0308	9.0	Diesel	8000		
	FEATURES & EMISSION		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			Loaders, Tractor, Dozer, Pump, Compressor, Generator Se 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	co	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	0.001	0.07		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 July 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

- for Annette Hebert

6-15-2015

F0#: U-R-004_0506

A Hachment: Page 10f1

Engine Model Summary Form

Manufacturer:

John Deere Power Systems

Engine category:

Nonroad CI EPA Engine Family: FJDXL09.0308 450HCC

Mfr Family Name:

Process Code:	New Submission	3. kW@RPM	4. Fuel Rate: mm/stroke@peak kW	5. Fuel Rate: (kg/hr)@peak kW	6. Torque (Nm) @RPM	7. Fuel Rate: mm/stroke@peak	8. Fuel Rate:	9. Emission Control Device Per
1. Engine code 6090HPRNT6	2. Engine Model 6090	(SAE Gross) 341@2200	(for diesel only) 216.5@2200	(for diesels only) 72.8@2200	(SEA Gross)	torque 266,8@1600	(kW/hr)@peak torque 65,3@1600	SAE J1930 EGR PTOX OC SCRC NH3OC ECM DFI TC CAC
6090HZ017A	6090	320@2200	208.1@2200	70.0@2200	1749@1600	251.7@1600	61.6@1600	EGR PTOX OC SCRC NH3OC ECM DFI TC CAC
6090HZ017B	6090	283@2200	175.2@2200	58,9@2200	1655@1500	231.4@1500	53.1@1500	EGR PTOX OC SCRC NH3OC ECM DFI TC GAC
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