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	HJDXL09.0301	9.0	Diesel	8000		
1	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 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 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		FEL		14 24			0.01			
		CERT	0.003	0.14		0.04	0.004			

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 ______3

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

A Hachment: Page lof1 Fo#: U-R-004-0542 4/14/2017

				Engine Mod	lel Summary F	orm			
Manufacturer: Engine category: EPA Engine Family: Mfr Family Name: Process Code;	John Deere Power S Nonroad Cl HJDXL09.0301 450HCA Running Change	ystems	4. Fuel Rate:	5. Fuel Rate:	6. Torque (Nm)	7. Fuel Rate:		0. Emin	sion Control
		3. kW@RPM	mm/stroke@peak kW	(kg/hr)@peak kW	@RPM	mm/stroke@peak	8. Fuel Rate:	Dev	vice Per
1. Engine code 6090HDW35	2. Engine Model	A	(for diesel only)			227.1@1500	(kW/hr)@peak torque	EGR ECM PTOX OCS	E J1930 SCRC NH3OC DELTC CAC 1
6090HDW36	6090 94,6090	272@2100	174@2100	55.9@2100	1621@1500	227.1@1500	52.1@1500 65.2@1600.47.8		SCRC NH3OC DFI TC CAC
6090HPRNT42 *6090HTJ29	6090	283@2000	188.5@2000	57.6@2000	1621@1500	225.0@1500	51,6@1500	EGR ECM PTOX OC 8	SCRC NH3OC DFI TC CAC
				na se do fosso					
						۸ ۸			
Kerena an			r.t.		ed	for 1			
besetteren A	Server Dige	Y States V	lating			assessment he	unin	1	NG &
			A LANA DATA THE AVERAGE AND A LAND AND A LAND				NAU CHE ST		
							With the second	1	
		1997 - September 1997 - S							
				an yaya ta					
					<u>1997-2003</u> 494		ruka ng sa sang di	9.46	
				а л .					
		Mark Freek							
DECENTRAL DE									
			e Section de Caracteria	e de la company					
						7 - F 2007 IV IS			

Rfc