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-02-003;

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)		
2010			Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Electronic Control Module, Direct Diesel Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter			Pump, 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	EMISSION			E	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	N/A	N/A	N/A
450 ≤ kW < 560	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	N/A	N/A	N/A
		CERT			3.7	0.9	0.16			

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 2009.

Annette Hebert, Chief

Mobile Source Operations Division

Date: 12/09/09

Engine Model Summary Form

Manufacturer:

John Deere Power Systems

Engine category:

Nonroad Cl EPA Engine Family: AJDXL09.0114

Mfr Family Name:

450HAB

Process Code:

New Submission

Attach ment 1 of 1

EO#: U-1-004_0389

090HFC47A	6090H	422.43@1760	235.00@1760	139.78@1760	A I / A	A 1/A	AllA	EM EC SPL
090HFC47B	6090H	399.63@2100	197.00@2100	139.33@2100	14/1	//	N/H	EM EC SPL
090HF484A	6090H	422.43@1800	230.00@1800	139.56@1800	The Carl Thirth	Wase Brazi	的制造 的复数	EM EC SPL
090HF484B	6090H	384.88@1800	211.00@1800	127.87@1800				EM EC SPL
090HF484C		345.99@1800	192.00@1800	116.63@1800			1/2	LIN LU UI L
090HF484D	6090H	307.10@1800	179.00@1800	108.47@1800	y	y	- V	EM EC SPL
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