

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)
2011	BJDXL09.0102	9.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Charge Air Cooler, Electronic Direct Injection, Electronic Control Module, Smoke Puff Limiter, Turbocharger, Exhaust Gas Recirculation			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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 560	Tier 4 ALT 20% NOx and PM	STD	0.19	2.0	N/A	3.5	0.02	20	15	50
		FEL	--	3.6	--	--	0.17	--	--	--
		CERT	0.11	3.5	--	0.5	0.12	8	4	32

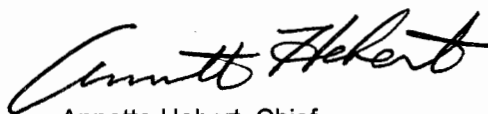
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any 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 10 day of January 2011.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Attachment page 1 of 1

Manufacturer: John Deere Power Systems
 Line category: Nonroad CI
 Engine Family: BJDXL09.0102
 Family Name: 450HAA
 Process Code: New Submission

11-16-2010

U-R-004-0434

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
30HF485A	6090H	417.06@2200	191.00@2200	141.65@2200	1231.57@1575	231@1575	122.65@1575	EGR EM EC
30HN001	6090H	324.53@2200	149.20@2200	110.74@2200	1084.81@1600	202.6@1600	109.35@1600	EGR EM EC
30HT001A	6090H	199.15@2100	96.10@2100	68.08@2100	672.57@1575	132.1@1575	70.18@1575	EGR EM EC
30HT001B	6090H	217.25@2100	105.80@2100	74.96@2100	733.78@1575	144.4@1575	76.72@1575	EGR EM EC
30HT002	6090H	282.96@1900	158.10@1900	101.37@1900	1065.64@1400	203.9@1400	96.30@1400	EGR EM EC
30HRW24	6090H	331.24@2100	159.40@2100	112.86@2100	1143.07@1575	217.1@1575	115.30@1575	EGR EM EC
30HDW03	6090H	230.66@2200	111.10@2200	82.46@2200	884.96@1600	169.7@1600	91.61@1600	EGR EM EC
30HDW06	6090H	295.03@2000	148.80@2000	100.36@2000	1132.01@1500	215.5@1500	109.07@1500	EGR EM EC
30HDW01A	6090H	300.39@2100	147.70@2100	104.59@2100	1039.83@1500	195.3@1500	98.79@1500	EGR EM EC
30HDW01B	6090H	280.28@2100	136.80@2100	96.85@2100	1014.02@1500	196@1500	99.12@1500	EGR EM EC
30HT005	6090H	217.25@2100	106.70@2100	75.62@2100	733.78@1575	148@1575	78.53@1575	EGR EM EC

TC, CAC
 ODI, SA

