

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)
2013	DJDXL06.8204	6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Charge Air Cooler, Diesel Oxidation Catalyst, Electronic Direct Injection, Electronic Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Smoke Puff Limiter, Turbocharger			Tractor, Loaders, Generator Set	

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	Interim Tier 4 / ALT NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		FEL	--	--	--	--	0.01	--	--	--
		CERT	0.003	1.7	--	0.03	0.01	--	--	--

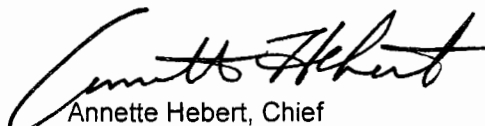
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any 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 31 day of October 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division

Attachment: Page 1 of 2
 6/25/2013
 RIC

EO#: U-R-004-0465

Engine Model Summary Form

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: DJDXL06.8204
 Mfr Family Name: 350HBA
 Process Code: Running Change

1. Engine code	2. Engine Model	3. kW@RPM (SAE Gross)	4. Fuel Rate: mm/stroke@peak kW (for diesel only)	5. Fuel Rate: (kg/hr)@peak kW (for diesels only)	6. Torque (Nm) @RPM (SEA Gross)	7. Fuel Rate: mm/stroke@peak torque	8. Fuel Rate: (kW/hr)@peak torque	9. Emission Control Device Per SAE J1930
6068RW404	6068	190.0@2100	128@2100	41.13@2100	1025@1500	151.5@1500	34.77@1500	PTOX EM SPL EGR
6068HFC94D	6068	168.0@2400	102@2400	37.45@2400	902@1500	128.7@1500	29.54@1500	PTOX EM SPL EGR
6068HFC94R	6068	149.0@2000	103.6@2000	31.7@2000	963@1500	137.6@1500	31.58@1500	PTOX EM SPL EGR
6068HZ491	6068	190.0@2400	117.5@2400	43.15@2400	1025@1500	152.4@1500	34.98@1500	PTOX EM SPL EGR
6068HFC94G	6068	168.0@2000	117.2@2000	35.86@2000	1025@1500	141.5@1500	32.47@1500	PTOX EM SPL EGR
6068HFC94E	6068	168.0@2400	101.6@2400	37.31@2400	902@1500	128.4@1500	29.47@1500	PTOX EM SPL EGR
6068HFC94C	6068	187.0@2000	131@2000	40.09@2000	1025@1500	152.9@1500	35.09@1500	PTOX EM SPL EGR
6068HT088	6068	189.0@2100	123.8@2100	39.78@2100	1025@1500	147.3@1500	33.81@1500	PTOX EM SPL EGR
6068HT074	6068	167.0@2100	114.1@2100	36.66@2100	918@1600	133.7@1600	32.73@1600	PTOX EM SPL EGR
6068HFG95A	6068	216.0@1800	166.6@1800	45.88@1800				PTOX EM SPL EGR
6068RW403	6068	167.0@2100	114.1@2100	36.66@2100	918@1600	133.7@1600	32.73@1600	PTOX EM SPL EGR
6068RW402	6068	190.0@2100	128@2100	41.13@2100	1025@1500	151.5@1500	34.77@1500	PTOX EM SPL EGR
6068HFC94M	6068	138.0@2400	85.3@2400	31.32@2400	741@1550	105.8@1550	25.09@1550	PTOX EM SPL EGR
6068HFC94J	6068	149.0@2200	98.6@2200	33.19@2200	873@1500	128.3@1500	29.45@1500	PTOX EM SPL EGR
6068HT080	6068	189.0@2100	123.8@2100	39.78@2100	1025@1500	147.3@1500	33.81@1500	PTOX EM SPL EGR
6068HFC94B	6068	187.0@2200	119.6@2200	40.26@2200	1025@1500	147.6@1500	33.87@1500	PTOX EM SPL EGR
6068HT073	6068	189.0@2100	123.8@2100	39.78@2100	1025@1500	147.3@1500	33.81@1500	PTOX EM SPL EGR
6068HFC94I	6068	149.0@2400	90.8@2400	33.34@2400	800@1500	114@1500	26.16@1500	PTOX EM SPL EGR
6068HDW85	6068	169.0@1900	123.4@1900	35.87@1900	1013@1425	147@1425	32.05@1425	PTOX EM SPL EGR
6068HFC94K	6068	149.0@2000	104.9@2000	32.1@2000	963@1500	144.3@1500	33.12@1500	PTOX EM SPL EGR
6068HTJ91A	6068	160.0@2000	115.8@2000	35.44@2000	945@1500	142@1500	32.59@1500	PTOX EM SPL EGR
6068HFC94S	6068	138.0@2000	97.2@2000	29.74@2000	890@1500	128.5@1500	29.49@1500	PTOX EM SPL EGR
6068HFC94B	6068	150.0@1800	115@1800	31.87@1800				PTOX EM SPL EGR
6068HTJ91B	6068	160.0@2000	111.9@2000	34.24@2000	945@1500	135.5@1500	31.1@1500	PTOX EM SPL EGR
6068HFC95A	6068	187.0@2200	121.4@2200	40.86@2200	1025@1500	151.7@1500	34.82@1500	PTOX EM SPL EGR
6068HFC94F	6068	168.0@2200	109.1@2200	36.72@2200	984@1500	142.6@1500	32.73@1500	PTOX EM SPL EGR
6068HN058	6068	224.0@2400	135.5@2400	49.76@2400	1057@1700	153.2@1700	39.85@1700	PTOX EM SPL EGR
6068HT084A	6068	189.0@2100	123.8@2100	39.78@2100	1025@1500	147.3@1500	33.81@1500	PTOX EM SPL EGR
6068HPRNT4	6068	208.0@2400	123.5@2400	45.35@2400	1105@1600	159.3@1600	39.0@1600	PTOX EM SPL EGR
6068HFC94O	6068	138.0@2000	97.7@2000	29.9@2000	890@1500	133.9@1500	30.73@1500	PTOX EM SPL EGR
6068HDW78	6068	167.0@2200	108.5@2200	36.52@2200	918@1600	133.7@1600	32.73@1600	PTOX EM SPL EGR
6068HL495	6068	167.0@2100	114.1@2100	36.66@2100	918@1600	133.7@1600	32.73@1600	PTOX EM SPL EGR
6068HT084B	6068	190.0@1900	138.1@1900	40.15@1900	1025@1500	154.2@1500	35.39@1500	PTOX EM SPL EGR
6068HFC95B	6068	168.0@2200	109.4@2200	36.82@2200	984@1500	145.2@1500	33.32@1500	PTOX EM SPL EGR
6068HL497	6068	189.0@2100	124.6@2100	40.03@2100	1025@1500	147.9@1500	33.94@1500	PTOX EM SPL EGR
6068HFC94A	6068	187.0@2400	111.4@2400	40.91@2400	1025@1500	144.9@1500	33.25@1500	PTOX EM SPL EGR
6068HL496	6068	190.0@2100	128@2100	41.13@2100	1025@1500	151.5@1500	34.77@1500	PTOX EM SPL EGR
6068HTJ90	6068	160.0@2000	113.4@2000	34.7@2000	945@1500	131.8@1500	30.25@1500	PTOX EM SPL EGR
6068RW401	6068	190.0@2100	128@2100	41.13@2100	1025@1500	151.5@1500	34.77@1500	PTOX EM SPL EGR
6068HFG94A	6068	180.0@1800	137.5@1800	37.87@1800				PTOX EM SPL EGR
6068HFC94P	6068	187.0@2000	130.7@2000	39.99@2000	1025@1500	148.7@1500	34.13@1500	PTOX EM SPL EGR

ECM, CAC, IC
 PDI, PTOX, DOC



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6/25/2013

Attachment: Page 2 of 2

EO#: U-R-004-0465

6068HFC94L	6068	138.0@2400	85.3@2400	31.32@2400	741@1500	105.8@1500	24.28@1500	PTOX EM SPL EGR
6068HFC94H	6068	149.0@2400	91.2@2400	33.49@2400	800@1500	114.8@1500	26.35@1500	PTOX EM SPL EGR
6068HFC94N	6068	138.0@2200	90.8@2200	30.56@2200	809@1500	118.2@1500	27.13@1500	PTOX EM SPL EGR
6068HFC94Q	6068	168.0@2000	117.5@2000	35.96@2000	1025@1500	146.8@1500	33.69@1500	PTOX EM SPL EGR

ECM, CAC, IC,
DPI, PTOX, DOC

