

	JOHN DEERE POWER SYSTEMS	EXECUTIVE ORDER U-R-004-0416
		New Off-Road Compression-Ignition Engines

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	AJDXL13.5900	4.5, 6.8, 9.0, 13.5	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Direct Diesel Injection, Electronic Control Module, Smoke Puff Limiter, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation			Loaders, 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):

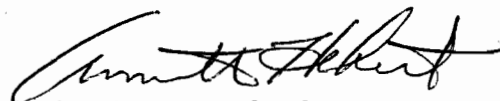
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 560	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.4	0.6	0.10	15	2	27

**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 day of December 2010.



Annette Hebert, Chief  
Mobile Source Operations Division

**Engine Model Summary Form**

Manufacturer: John Deere Power Systems  
 Engine category: Nonroad CI  
 PA Engine Family: AJDXL13.5900  
 Mfr Family Name: 900FLX  
 Process Code: New Submission

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 P# / SAE J1930
3090HF485W	6090H	384.88@1800	179.60@1800	128.31@1800				EGR EM EC
6090HF485X	6090H	345.99@1800	161.20@1800	115.13@1800				EGR EM EC
6090HF485Y	6090H	307.10@1800	142.10@1800	101.46@1800				EGR EM EC
6090HF485V	6090H	422.43@1800	232.00@1800	140.66@1800				EGR EM EC
6090HF485U	6090H	225.30@2000	113.50@2000	76.57@2000	807.53@1500	160.5@1500	81.16@1500	EGR EM EC
6090HF485B	6090H	375.49@2200	172.30@2200	127.89@2200	1147.50@1500	211.7@1500	107.13@1500	EGR EM EC
6090HF485C	6090H	350.01@2200	161.10@2200	119.60@2200	1146.76@1500	211.9@1500	107.41@1500	EGR EM EC
6090HF485D	6090H	350.01@2200	161.10@2200	119.52@2200	1146.76@1500	211.9@1500	107.21@1500	EGR EM EC
6090HF485E	6090H	350.01@2000	175.70@2000	118.50@2000	1146.76@1500	211.9@1500	107.21@1500	EGR EM EC
6090HF485F	6090H	324.53@2200	150.80@2200	111.89@2200	1051.63@1500	192.4@1500	97.36@1500	EGR EM EC
6090HF485G	6090H	324.53@2200	150.40@2200	111.85@2200	1146.76@1500	211.9@1500	107.19@1500	EGR EM EC
6090HF485H	6090H	324.53@2000	161.80@2000	109.15@2000	1146.76@1500	211.9@1500	107.21@1500	EGR EM EC
6090HF485I	6090H	300.39@2200	138.80@2200	103.00@2200	971.24@1500	180.8@1500	81.50@1500	EGR EM EC
6090HF485J	6090H	300.39@2200	138.40@2200	102.67@2200	1051.63@1500	195.3@1500	98.81@1500	EGR EM EC
6090HF485K	6090H	300.39@2000	149.80@2000	100.95@2000	1051.63@1500	195.4@1500	98.86@1500	EGR EM EC
6090HF485M	6090H	274.91@2200	125.70@2200	93.35@2200	885.70@1500	178.1@1500	90.08@1500	EGR EM EC
6090HF485N	6090H	274.91@2200	125.30@2200	93.04@2200	968.29@1500	197.3@1500	99.78@1500	EGR EM EC
6090HF485R	6090H	250.78@2000	123.00@2000	83.01@2000	885.70@1500	179.1@1500	90.59@1500	EGR EM EC
6090HF485S	6090H	225.30@2200	107.80@2200	80.03@2200	725.67@1500	142.5@1500	72.07@1500	EGR EM EC
6090HF485T	6090H	225.30@2200	106.50@2200	79.06@2200	807.53@1500	160.3@1500	81.07@1500	EGR EM EC
6090HF485O	6090H	274.91@2000	136.30@2000	91.96@2000	968.29@1500	198.5@1500	100.38@1500	EGR EM EC
6090HF485Q	6090H	250.78@2200	116.40@2200	86.45@2200	885.70@1500	179.1@1500	90.57@1500	EGR EM EC
6090HF485P	6090H	250.78@2200	117.10@2200	86.89@2200	807.53@1500	160.3@1500	81.09@1500	EGR EM EC
6090HF485L	6090H	399.63@2200	182.40@2200	135.39@2200	1143.07@1600	216.1@1600	116.65@1600	EGR EM EC
6135HF485B	6135H	600.78@2100	296.30@2100	209.73@2100	1880.54@1575	354.5@1575	188.19@1575	EGR EM EC
6135HF485C	6135H	549.82@2100	274.60@2100	194.41@2100	1792.04@1400	356.6@1400	168.28@1400	EGR EM EC
6135HF485D	6135H	549.82@2100	274.60@2100	194.41@2100	1792.04@1400	356.6@1400	168.28@1400	EGR EM EC
6135HF485E	6135H	525.69@2100	265.70@2100	188.08@2100	1792.04@1400	357.6@1400	168.79@1400	EGR EM EC
6135HF485F	6135H	500.21@2100	251.80@2100	178.20@2100	1688.80@1400	332.1@1400	158.71@1400	EGR EM EC

Tc, CAC, SPL, DDI



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TC, CAC, SPL, DDI

3135HF485G	6135H	500.21@2100	251.80@2100	178.20@2100	1688.80@1400	332.1@1400	156.71@1400	EGR EM EC
3135HF485H	6135H	500.21@1900	272.70@1900	174.63@1900	1792.04@1400	359.9@1400	169.87@1400	EGR EM EC
3135HF485T	6135H	537.75@1800	308.90@1800	187.44@1800				EGR EM EC
3135HF485S	6135H	616.88@1800	347.80@1800	210.98@1800				EGR EM EC
3135HF485I	6135H	450.59@2100	226.40@2100	160.26@2100	1521.39@1400	350.6@1400	165.50@1400	EGR EM EC
3135HF485J	6135H	450.59@2100	226.40@2100	160.26@2100	1521.39@1400	350.6@1400	165.50@1400	EGR EM EC
3135HF485K	6135H	450.59@1900	243.40@1900	155.87@1900	1688.80@1400	334.9@1400	158.05@1400	EGR EM EC
3135HF485L	6135H	425.11@2100	210.40@2100	148.92@2100	1521.39@1400	302.5@1400	142.75@1400	EGR EM EC
3135HF485M	6135H	399.63@2100	199.50@2100	141.21@2100	1352.51@1400	285.6@1400	134.77@1400	EGR EM EC
3135HF485N	6135H	399.63@2100	199.50@2100	141.21@2100	1352.51@1400	285.6@1400	134.77@1400	EGR EM EC
3135HF485O	6135H	399.63@1900	214.20@1900	137.17@1900	1521.39@1400	310.6@1400	146.61@1400	EGR EM EC
3135HF485P	6135H	350.01@2100	177.30@2100	564.60@2100	1181.42@1400	217.6@1400	120.90@1400	EGR EM EC
3135HF485Q	6135H	350.01@2100	177.30@2100	125.49@2100	1181.42@1400	256.1@1400	120.90@1400	EGR EM EC
3135HF485R	6135H	350.01@1900	188.50@1900	120.75@1900	1352.51@1400	282.3@1400	133.21@1400	EGR EM EC
3135HF485U	6135H	462.66@1800	257.30@1800	156.09@1800				EGR EM EC
3068HF485B	6068H	199.82@2200	93.30@2200	69.21@2200	688.06@1400	138.7@1400	65.48@1400	EGR EM EC
3068HF485C	6068H	199.82@2200	93.20@2200	69.14@2200	618.00@1400	123.9@1400	58.51@1400	EGR EM EC
3068HF485D	6068H	199.82@2400	90.70@2400	73.42@2400	548.68@1400	111.6@1400	52.69@1400	EGR EM EC
3068HF485E	6068H	193.11@2000	97.90@2000	66.05@2000	618.00@1400	124.9@1400	58.98@1400	EGR EM EC
3068HF485F	6068H	193.11@2000	98.10@2000	66.19@2000	688.06@1400	138.9@1400	65.61@1400	EGR EM EC
3068HF485G	6068H	179.70@2000	90.70@2000	61.18@2000	618.00@1400	124.5@1400	58.80@1400	EGR EM EC
3068HF485H	6068H	185.07@2200	87.00@2200	64.53@2200	618.00@1400	124.1@1400	58.62@1400	EGR EM EC
3068HF485I	6068H	185.07@2200	87.30@2200	64.78@2200	548.68@1400	109.6@1400	51.75@1400	EGR EM EC
3068HF485J	6068H	185.07@2400	85.00@2400	68.85@2400	516.23@1400	103.5@1400	50.27@1400	EGR EM EC
3068HF485K	6068H	225.30@2200	106.10@2200	78.75@2200	688.06@1400	141.5@1400	66.91@1400	EGR EM EC
3068HF485L	6068H	274.91@2400	119.80@2400	97.05@2400	755.90@1400	149.9@1400	72.80@1400	EGR EM EC
3068HF485M	6068H	250.78@2200	117.10@2200	86.87@2200	755.90@1400	156.2@1400	73.79@1400	EGR EM EC
3068HF485N	6068H	242.73@2000	123.70@2000	83.45@2000	755.90@1400	154.1@1400	72.87@1400	EGR EM EC
3068HF485O	6068H	217.25@2000	111.90@2000	75.49@2000	755.90@1400	148.8@1400	70.38@1400	EGR EM EC
3068HF485P	6068H	250.78@2400	108.30@2400	87.70@2400	688.80@1400	141.3@1400	68.66@1400	EGR EM EC
3068HF485Q	6068H	217.25@2000	112.20@2000	75.69@2000	688.80@1400	138.9@1400	65.70@1400	EGR EM EC
3068HF485R	6068H	225.30@2400	100.00@2400	80.98@2400	618.00@1400	126.6@1400	61.49@1400	EGR EM EC
3068HF485S	6068H	225.30@2200	105.90@2200	78.58@2200	755.90@1400	157@1400	74.21@1400	EGR EM EC
3068HF485T	6068H	315.15@1800	178.40@1800	108.32@1800				EGR EM EC
4045HF485E	4045H	197.14@1800	170.20@1800	69.85@1800				EGR EM EC
3068HF485U	6068H	284.30@1800	135.50@1800	96.92@1800				EGR EM EC
3135HPFLX1	6135H	630.29@2100	311.00@2100	218.30@2100	2025.08@1575	393@1575	206.31@1575	EM EGR EC
3068HPRNT2	6068H	278.94@2400	126.80@2400	102.74@2400	854.72@1400	170.1@1400	80.47@1400	EGR EM EC

