California Environmental Protection Agency	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0264 New Off-Road Compression-Ignition Engines
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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)			
2006	6JDXL08.1037	8.1	Diesel 800				
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS		ATION			
Direct Die: Elect	el Injection, Turbocharge ronic Control Module, Sm	er, Charge Air Cooler, noke Puff Limiter	Loaders, Tractor, Pump, Com Generator Set, Other Industrial F	pressor, 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	XHAUST (g/kW-	OPACITY (%)				
CLASS	CLASS CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	-	-	6.3	-	-	-	-	-
		CERT	-	-	6.1	0.8	0.15	10	3	18

**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 \_\_\_\_\_\_ day of December 2005.

Raphael Susnowitz

Allen Lyons, Chief Mobile Source Operations Division

## Engine Model Summary Form

Manufacturer:	John Deere Power Systems of Deere and
Engine category:	Nonroad Cl
EPA Engine Family:	6JDXL08.1037
. amily Name:	450HF
Process Code:	New Submission

Alfachment 4-2-004-0264

6081HRW306081H285.64@2100136.50@210096.70@21001000.00@1400188.6@140088.05@1400EM EC6081HZ0166081H303.08@2100120.30@2100102.52@2100976.41@1500159.5@150095.24@1500EM EC6081HDW086081H199.28@2200102.60@220076.13@2200781.72@1500151.5@150076.66@1500EM EC6081HH0196081H300.39@2200137.10@2200101.72@2200840.71@1600165.3@160089.22@1600EM EC6081HT006A6081H199.15@210099.60@210070.55@2100672.57@1500132@150066.80@1500EM EC6081HT006B6081H217.25@2100107.80@210076.42@2100733.78@1500145.3@150073.42@1500EM EC6081HT0086081H261.50@2000138.40@200093.30@2000998.53@1500196@150099.17@1500EM EC6081HF070A6081H335.26@2200160.00@2200116.85@22001126.85@1400226@1400108.03@1400EM EC6081HH0276081H383.54@2200181.20@2200134.42@22001087.03@1600219@1600118.17@1600EM EC	1 Control SAE J1930	9.Emission ( Device Per SA	uel Rate: @peak torque :	8.Fuel (lbs/hr)@p	uel Rate: .roke@peak torque	7.F mm/st	@ RPM Gross)	6.Torque (SEA (	uel Rate: @ peak HP esels only)	5.Fue (Ibs/hr) ( (for die:	iuel Rate: ke @ peak HP diesel only)	4.Fue mm∕stroke (for die	HP@RPM AE Gross)	3.B dei (S/	.Engine Mode	ngine Code
6081HZ016 6081H 303.08@2100 120.30@2100 102.52@2100 976.41@1500 159.5@1500 95.24@1500 EM EC   6081HDW08 6081H 199.28@2200 102.60@2200 76.13@2200 781.72@1500 151.5@1500 76.66@1500 EM EC   6081HD09 6081H 300.39@2200 137.10@2200 101.72@2200 840.71@1600 165.3@1600 89.22@1600 EM EC   6081HT006A 6081H 199.15@2100 99.60@2100 70.55@2100 672.57@1500 132@1500 66.80@1500 EM EC   6081HT006B 6081H 217.25@2100 107.80@2100 76.42@2100 733.78@1500 145.3@1500 73.42@1500 EM EC   6081HT006B 6081H 261.50@2000 138.40@2000 93.30@2000 998.53@1500 196@1500 99.17@1500 EM EC   6081HF070A 6081H 335.26@2200 160.00@2200 116.85@2200 1128.85@1400 226@1400 108.03@1400 EM EC   6081HF027 6081H 383.54@2200 181.20@2200 134.42@2200 1087.03@1600 219@1600	SPL, SPL	EMEC	05@1400	89.05	3.6@1400	188	0@1400	1000.00	0@2100	96.70	.50@2100	136,5	64@2100	285.	6081H	1HRW30
6081HDW086081H199.28@2200102.60@220076.13@2200781.72@1500151.5@150076.66@1500EM EC6081HH0196081H300.39@2200137.10@2200101.72@2200840.71@1600165.3@160089.22@1600EM EC6081HT006A6081H199.15@210099.60@210070.55@2100672.57@1500132@150066.80@1500EM EC6081HT006B6081H217.25@2100107.80@210076.42@2100733.78@1500145.3@150073.42@1500EM EC6081HT0086081H261.50@2000138.40@200093.30@2000998.53@1500196@150099.17@1500EM EC6081HF070A6081H335.26@2200160.00@2200116.85@22001126.85@1400226@1400108.03@1400EM EC6081HH0276081H383.54@2200181.20@2200134.42@22001087.03@1600219@1600118.17@1600EM EC	SPL	EM EC S	24@1500	95.24	.5@1500	159	@1500	976.41	52@2100	102.5	.30@2100	120.3	08@2100	303.	6081H	81HZ016
6081HH019 6081H 300.39@2200 137.10@2200 101.72@2200 840.71@1600 165.3@1600 89.22@1600 EM EC   6081HT006A 6081H 199.15@2100 99.60@2100 70.55@2100 672.57@1500 132@1500 66.80@1500 EM EC   6081HT006B 6081H 217.25@2100 107.80@2100 76.42@2100 733.78@1500 145.3@1500 73.42@1500 EM EC   6081HT008 6081H 261.50@2000 138.40@2000 93.30@2000 998.53@1500 196@1500 99.17@1500 EM EC   6081HF070A 6081H 335.26@2200 160.00@2200 116.85@2200 1126.85@1400 226@1400 108.03@1400 EM EC   6081HH027 6081H 383.54@2200 181.20@2200 134.42@2200 1087.03@1600 219@1600 118.17@1600 EM EC	SPL	EMEC	66@1500	76.66	.5@1500	151	@1500	781.72	3@2200	76.13	60@2200	102,6	28@2200	199.	6081H	HDW08
6081HT006A 6081H 199.15@2100 99.60@2100 70.55@2100 672.57@1500 132@1500 66.80@1500 EM EC   6081HT006B 6081H 217.25@2100 107.80@2100 76.42@2100 733.78@1500 145.3@1500 73.42@1500 EM EC   6081HT006B 6081H 217.25@2100 107.80@2100 76.42@2100 733.78@1500 145.3@1500 73.42@1500 EM EC   6081HT008 6081H 261.50@2000 138.40@2000 93.30@2000 998.53@1500 196@1500 99.17@1500 EM EC   6081HF070A 6081H 335.26@2200 160.00@2200 116.85@2200 1126.85@1400 226@1400 108.03@1400 EM EC   6081HH027 6081H 383.54@2200 181.20@2200 134.42@2200 1087.03@1600 219@1600 118.17@1600 EM EC	SPL	EMEC	22@1600	89.22	5.3@1600	165	@1600	840.71	72@2200	101.7	.10@2200	137,1	39@2200	300.	6081H	81HH019
6081HT006B 6081H 217.25@2100 107.80@2100 76.42@2100 733.78@1500 145.3@1500 73.42@1500 EM EC   6081HT008 6081H 261.50@2000 138.40@2000 93.30@2000 998.53@1500 196@1500 99.17@1500 EM EC   6081HF070A 6081H 335.26@2200 160.00@2200 116.85@2200 1126.85@1400 226@1400 108.03@1400 EM EC   6081HH027 6081H 383.54@2200 181.20@2200 134.42@2200 1087.03@1600 219@1600 118.17@1600 EM EC	SPL	EMEC	80@1500	66.80	2@1500	, 13	@1500	672.57	5@2100	70.55	60@2100	99.60	15@2100	199.	6081H	1HT006A
6081HT008 6081H 261.50@2000 138.40@2000 93.30@2000 998.53@1500 196@1500 99.17@1500 EM EC   6081HF070A 6081H 335.26@2200 160.00@2200 116.85@2200 1126.85@1400 226@1400 108.03@1400 EM EC   6081HH027 6081H 383.54@2200 181.20@2200 134.42@2200 1087.03@1600 219@1600 118.17@1600 EM EC	SPL	EMEC	42@1500	73.42	5.3@1500	145	@1500	733.78	2@2100	76.42	.80@2100	107.8	25@2100	217.	6081H	31HT006B
6081HF070A 6081H 335.26@2200 160.00@2200 116.85@2200 1126.85@1400 226@1400 108.03@1400 EM EC   6081HH027 6081H 383.54@2200 181.20@2200 134.42@2200 1087.03@1600 219@1600 118.17@1600 EM EC	SPL	EMEC	17@1500	99.17	6@1500	. 19	@1500	998.53	0@2000	93.30	.40@2000	138.4	50@2000	261.	6081H	81HT008
6081HH027 6081H 383,54@2200 181,20@2200 134,42@2200 1087,03@1600 219@1600 118,17@1600 EMEC	SPL	EMEC	.03@1400	108.03	6@1400	22	5@1400	1126.8	85@2200	116.8	.00@2200	160.0	26@2200	335.	6081H	31HF070A
	SPL	EMEC	.17@1600	118.17	9@1600	21	3@1600	1087.0	42@2200	134.4	.20@2200	181.2	54@2200	383	6081H	81HH027
6081HH026 6081H 347.33@2200 162.70@2200 120.71@2200 974.93@1600 195.7@1600 105.63@1600 EMEC	SPL	EMEC	.63@1600	105.63	5.7@1600	195	@1600	974.93	71@2200	120.7	.70@2200	162.7	.33@2200	347	6081H	81HH026