

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)
2008	8JDXL06.8105	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter			Loader, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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):

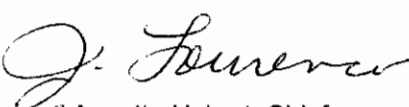
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.4	1.5	0.25	13	3	25

**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 14<sup>th</sup> day of December 2007.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

Engine Model Summary Form

U-R-004-0313

Manufacturer: John Deere Power Systems  
 Engine category: Nonroad CI  
 Engine Family: 8JDXL06.8105  
 Model Name: 350HAC  
 Code: New Submission

Attachment p. 1 of 6

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
4045HF286	4045H	115.33@2400	84.80@2400	45.77@2400	317.11@1600	101.1@1600	36.45@1600	EM EC SPL
4045HF285A	4045H	146.18@2400	111.50@2400	60.17@2400	413.65@1600	131.8@1600	47.40@1600	EM EC SPL
4045HF285G	4045H	139.47@2400	102.10@2400	55.14@2400	387.17@1600	120.2@1600	43.33@1600	EM EC SPL
4045HF285F	4045H	124.72@2400	91.80@2400	49.56@2400	354.72@1600	111.9@1600	40.33@1600	EM EC SPL
4045HF285C	4045H	115.33@2400	84.80@2400	45.77@2400	317.11@1600	101.1@1600	36.45@1600	EM EC SPL
4045HF285D	4045H	115.33@2200	90.40@2200	44.71@2200	354.72@1600	113.7@1600	40.97@1600	EM EC SPL
4045HF285E	4045H	124.72@2200	97.00@2200	47.98@2200	387.17@1600	124.3@1600	44.78@1600	EM EC SPL
6068HF285E	6068H	173.00@2400	82.40@2400	66.69@2400	491.89@1500	101.22@1500	51.22@1500	EM EC SPL
6068HF285F	6068H	173.00@2200	86.60@2200	64.18@2200	526.55@1500	108.46@1500	54.83@1500	EM EC SPL
6068HF285G	6068H	155.56@2400	75.70@2400	61.31@2400	441.01@1500	93.6@1500	47.43@1500	EM EC SPL
6068HF285H	6068H	155.56@2200	79.20@2200	58.78@2200	491.89@1500	102.6@1500	52.01@1500	EM EC SPL
6068HF285I	6068H	139.47@2400	68.90@2400	55.80@2400	396.76@1500	87.3@1500	44.23@1500	EM EC SPL
6068HF285J	6068H	139.47@2200	72.30@2200	53.64@2200	441.01@1500	96.4@1500	48.88@1500	EM EC SPL
4045HF285K	4045H	126.06@1800	115.80@1800	46.90@1800				EM EC SPL
4045HF285L	4045H	158.25@1800	144.10@1800	58.32@1800				EM EC SPL
4045HF285M	4045H	132.77@1800	121.70@1800	49.26@1800				EM EC SPL
6068HDW7D	6068H	152.88@2350	76.10@2350	60.37@2350	511.07@1600	107.6@1600	58.10@1600	EM EC SPL
6068HT066	6068H	123.38@2100	68.20@2100	48.29@2100	401.18@1500	90.4@1500	45.84@1500	EM EC SPL
6068HT069	6068H	173.00@2000	93.80@2000	63.28@2000	544.25@1500	120.7@1500	61.07@1500	EM EC SPL
4045HT056	4045H	127.40@2200	85.60@2200	49.81@2200	387.17@1600	106.56@1600	45.11@1600	EM EC SPL
6068HT063A	6068H	167.63@2100	87.50@2100	62.00@2100	550.89@1500	118.2@1500	59.79@1500	EM EC SPL
6068HT063B	6068H	173.00@2100	90.00@2100	63.74@2100	573.75@1500	119.1@1500	60.26@1500	EM EC SPL
4045HL281	4045H	116.67@2300	90.10@2300	46.61@2300	353.40@1600	117.2@1600	42.16@1600	EM EC SPL
4045HFS83	4045H	158.25@1800	144.10@1800	58.32@1800				EM EC SPL
4045HFS82	4045H	126.06@1800	115.80@1800	46.90@1800				EM EC SPL
4045HDW53	4045H	128.74@2200	100.90@2200	49.94@2200	389.39@1600	122.6@1600	44.21@1600	EM EC SPL
6068HRT86	6068H	151.54@2200	82.00@2200	58.65@2200	467.56@1500	105.7@1500	51.59@1500	EM EC SPL
6068HRT85B	6068H	138.13@2200	74.80@2200	53.58@2200	426.26@1500	94.9@1500	46.30@1500	EM EC SPL
6068HRT85A	6068H	127.40@2200	70.50@2200	50.27@2200	393.07@1500	82.2@1500	44.98@1500	EM EC SPL
6068HL280	6068H	140.81@2300	73.10@2300	54.28@2300	429.21@1600	97.95@1600	50.42@1600	EM EC SPL
6068HRW72	6068H	140.81@2300	73.10@2300	54.28@2300	429.21@1600	97.95@1600	50.42@1600	EM EC SPL
6068HL281	6068H	173.00@2100	93.30@2100	63.32@2100	575.23@1500	125.1@1500	60.72@1500	EM EC SPL
6068HRW74	6068H	173.00@2100	93.30@2100	63.32@2100	575.23@1500	125.1@1500	60.72@1500	EM EC SPL
6068HL280A	4045H	119.36@2300	64.20@2300	47.62@2300	364.31@1600	87@1600	44.98@1600	EM EC SPL
4045HL283B	4045H	115.33@2300	93.80@2300	46.74@2300	351.77@1600	121.9@1600	42.11@1600	EM EC SPL
4045HL283A	4045H	123.38@2300	98.10@2300	48.73@2300	376.11@1600	127.6@1600	44.10@1600	EM EC SPL
4045HL283C	4045H	104.60@2300	85.90@2300	42.77@2300	319.33@1600	113@1600	38.81@1600	EM EC SPL
6068HDW74A	6068H	152.88@2350	76.10@2350	60.37@2350	511.07@1600	107.3@1600	58.10@1600	EM EC SPL
6068HDW74B	6068H	152.88@2350	76.10@2350	60.37@2350	511.07@1600	107.3@1600	58.10@1600	EM EC SPL
6068HT067	6068H	139.47@2200	72.30@2200	53.64@2200	441.01@1500	96.4@1500	48.88@1500	EM EC SPL

DO, TC, CAC



### Engine Model Summary Form

U-2-004-0313.

Manufacturer: **John Deere Power Systems**  
 Engine category: **Nonroad CI**  
 Engine Family: **8JDXL06.8105**  
 Family Name: **350HAC**  
 Status Code: **Running Change**

Attachment p. 2 of 6.

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
4045HT280A	4045H	115.33@2200	92.40@2200	45.71@2200	354.72@1600	112.6@1600	40.50@1600	EM EC SPL <b>DDI, TC, CAC</b>
4045HT057A	4045H	108.63@2200	89.20@2200	44.14@2200	337.03@1500	114.4@1500	38.61@1500	EM EC SPL
4045HT057B	4045H	115.33@2200	93.50@2200	46.28@2200	370.95@1500	118.9@1500	40.11@1500	EM EC SPL

### Engine Model Summary Form

Manufacturer: **John Deere Power Systems**

U-2-004-0313

Engine category: **Nonroad CI**

Engine Family: **8JDXL06.8105**

Family Name: **350HAC**

Attachment p. 3 of 6

Process Code: **Running Change**

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
4045HP052C	4045H	116.67@2100	96.90@2100	45.75@2100	353.89@1575	113.9@1575	40.33@1575	EM EC SPL <sup>DO, TC, CAC</sup>
4045HP052A	4045H	135.45@2100	111.50@2100	52.65@2100	383.98@1575	122.4@1575	43.35@1575	EM EC SPL
4045HP052B	4045H	128.07@2100	105.50@2100	49.81@2100	386.78@1575	122.5@1575	43.39@1575	EM EC SPL



## Engine Model Summary Form

Manufacturer: **John Deere Power Systems**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **8JDXL06.8105**  
 Family Name: **350HAC**  
 Class Code: **Running Change**

U-2-004-0313

Attachment p. 4 of 6

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
4045HDW54	4045H	128.74@2200	100.90@2200	49.94@2200	389.43@1600	122.6@1600	44.21@1600	EM EC SPL <span style="float: right;">DDI, TC, CAC</span>

# Engine Model Summary Form

Manufacturer: **John Deere Power Systems**  
Engine category: **Nonroad CI**  
EPA Engine Family: **8JDXL06.8105**  
Family Name: **350HAC**  
Process Code: **Running Change**

10-2-004-0313

Attachment p. 5 of 6

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
6068HT072	6068H	173.00@2000	93.80@2000	63.28@2000	544.25@1500	120.7@1500	61.07@1500	EM EC SPL <u>DDI,TC,CAC</u>

**Engine Model Summary Form**

U-R-004-0313

Manufacturer: **John Deere Power Systems**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **8JDXL06.8105**  
 Mfr Family Name: **350HAC**  
 Process Code: **Running Change**

Attachment      P. 6 of 6

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
6068HL280B	6068H	130.08@2300	66.50@2300	51.59@2300	396.76@1600	89.2@1600	48.06@1600	EM EC SPL <b>DDI, TC, CAC</b>
6068HL280C	6068H	140.81@2300	73.10@2300	54.28@2300	429.21@1600	97.95@1600	50.42@1600	EM EC SPL
6068HL281A	6068H	156.90@2100	82.70@2100	58.43@2100	522.87@1500	114.1@1500	57.54@1500	EM EC SPL
6068HL281B	6068H	173.00@2100	93.30@2100	63.32@2100	575.23@1500	125.1@1500	60.72@1500	EM EC SPL
4045HL283D	4045H	123.38@2300	98.10@2300	48.73@2300	376.11@1600	127.6@1600	44.10@1600	EM EC SPL

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