



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)
2009	9JDXL06.8105	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			Loaders, 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):

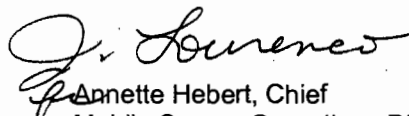
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.4	1.5	0.25	13	3	25

**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 12<sup>th</sup> day of December 2008.

  
Annette Hebert, Chief  
Mobile Source Operations Division

Engine Model Summary Form

U-R-004-0363

Manufacturer: John Deere Power Systems  
 Engine category: Nonroad CI  
 EPA Engine Family: BJDXL06.8105  
 Alt Family Name: 350HAC  
 Class Code: New Submission

Attachment P. 1 of 4

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
4045HF288	4045H	115.33@2400	84.80@2400	45.77@2400	317.11@1800	101.1@1800	36.45@1800	EM EC SPL
4045HF285A	4045H	146.18@2400	111.50@2400	60.17@2400	413.85@1800	131.8@1800	47.40@1800	EM EC SPL
4045HL283A	4045H	123.38@2300	98.10@2300	48.73@2300	376.11@1800	127.6@1800	44.10@1800	EM EC SPL
4045HL283C	4045H	129.10@2300	85.90@2300	42.77@2300	319.33@1600	113@1600	36.81@1600	EM EC SPL
6068HDW74A	6068H	152.88@2350	78.10@2350	60.37@2350	511.07@1800	107.3@1800	58.10@1800	EM EC SPL
6068HDW74B	6068H	152.88@2350	78.10@2350	61.82@2350	445.43@1800	94.54@1800	50.98@1800	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
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	48.28@2200	370.95@1500	118.9@1500	40.11@1500	EM EC SPL
4045HP052C	4045H	116.67@2100	96.90@2100	45.75@2100	353.84@1575	113.9@1575	40.33@1575	EM EC SPL
4045HP052A	4045H	135.45@2100	111.50@2100	52.85@2100	383.93@1575	122.4@1575	43.35@1575	EM EC SPL
4045HP052B	4045H	128.07@2100	105.50@2100	49.81@2100	386.73@1575	122.5@1575	43.39@1575	EM EC SPL
4045HDW54	4045H	128.74@2200	100.90@2200	49.84@2200	389.39@1800	122.6@1800	44.21@1800	EM EC SPL
6068HT072	6068H	129.10@2000	93.80@2000	63.28@2000	544.25@1500	120.7@1500	61.07@1500	EM EC SPL
4045HF285G	4045H	139.47@2400	102.10@2400	55.14@2400	387.17@1800	120.2@1800	43.33@1800	EM EC SPL
4045HF285F	4045H	124.72@2400	91.80@2400	49.56@2400	354.72@1800	111.9@1800	40.33@1800	EM EC SPL
4045HF285C	4045H	115.33@2400	84.80@2400	45.77@2400	317.11@1800	101.1@1800	36.45@1800	EM EC SPL
4045HF285D	4045H	115.33@2200	90.40@2200	44.71@2200	354.72@1800	113.7@1800	40.97@1800	EM EC SPL
4045HF285E	4045H	124.72@2200	97.00@2200	47.95@2200	387.17@1800	124.3@1800	44.78@1800	EM EC SPL
6068HF285E	6068H	173.00@2400	82.40@2400	66.89@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	102.8@1500	52.01@1500	EM EC SPL
6068HF285I	6068H	139.47@2400	88.90@2400	55.80@2400	386.78@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
5HF285J	4045H	126.06@1800	115.80@1800	46.90@1800	N/A	N/A	N/A	EM EC SPL
5HF285I	4045H	158.25@1800	144.10@1800	58.32@1800	N/A	N/A	N/A	EM EC SPL
4045HF285H	4045H	132.77@1800	121.70@1800	49.26@1800	N/A	N/A	N/A	EM EC SPL
6068HDW70	6068H	152.88@2350	78.10@2350	60.37@2350	511.07@1800	107.8@1800	58.10@1800	EM EC SPL
6068HT066	6068H	123.38@2100	88.20@2100	48.28@2100	401.16@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	85.80@2200	49.81@2200	387.17@1800	106.58@1600	45.11@1600	EM EC SPL
6068HT063A	6068H	167.63@2100	87.50@2100	62.00@2100	550.89@1500	118.2@1500	59.78@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@1800	117.2@1800	42.16@1800	EM EC SPL
4045HFS83	4045H	158.25@1800	144.10@1800	58.32@1800	N/A	N/A	N/A	EM EC SPL
4045HFS82	4045H	126.06@1800	115.80@1800	46.90@1800	N/A	N/A	N/A	EM EC SPL
4045HDW53	4045H	128.74@2200	100.90@2200	49.84@2200	389.39@1600	122.6@1600	44.21@1600	EM EC SPL
6068HRT86	6068H	151.54@2200	82.00@2200	58.65@2200	487.56@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	92.2@1500	44.98@1500	EM EC SPL
6068HL280	6068H	140.81@2300	73.10@2300	54.28@2300	429.21@1800	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	6068H	119.36@2300	84.20@2300	47.62@2300	364.31@1800	87@1800	44.98@1800	EM EC SPL
4045HL283B	4045H	115.33@2300	93.80@2300	46.74@2300	351.77@1800	121.9@1800	42.11@1800	EM EC SPL
6068HL280B	6068H	130.08@2300	66.50@2300	51.59@2300	396.76@1800	89.2@1800	48.06@1800	EM EC SPL
6068HL280C	6068H	140.81@2300	73.10@2300	54.28@2300	429.21@1800	97.95@1600	50.42@1600	EM EC SPL
6068HL281A	6068H	158.90@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@1800	127.6@1800	44.10@1800	EM EC SPL

DI, TC  
CAC

### Engine Model Summary Form

Manufacturer: John Deere Power Systems  
 Engine category: Nonroad CI  
 EPA Engine Family: 9JDXL06.8105  
 Mfr Family Name: 350HAC  
 Process Code: Running Change

U-R-004-0363

Attachment P. 2 of 4

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm <sup>3</sup> /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 <sup>3</sup> /stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
4045HRT83A	4045H	131.43@2200	107.30@2200	53.14@2200	383.49@1650	118.8@1650	43.88@1650	EM EC SPL
4045HRT83B	4045H	120.70@2200	100.00@2200	49.39@2200	376.11@1650	118@1650	43.66@1650	EM EC SPL
4045HRT83C	4045H	111.31@2200	92.60@2200	45.64@2200	345.88@1650	107.7@1650	39.91@1650	EM EC SPL
4045HRT83D	4045H	119.38@2200	97.50@2200	48.06@2200	373.90@1650	117.4@1650	43.44@1650	EM EC SPL
4045HRT83E	4045H	108.63@2200	89.90@2200	44.54@2200	351.04@1650	110.7@1650	41.01@1650	EM EC SPL

DPE, TC, CAC  
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### Engine Model Summary Form

Manufacturer: John Deere Power Systems

Engine category: Nonroad CI

EPA Engine Family: 9JDXL06.8105

Model Family Name: 350HAC

Access Code: Running Change

Attachment

P. 4 of 4

U-R-004-0363

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /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 <sup>3</sup> /stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
4045HT065	4045H	127.40@2200	89.50@2200	49.01@2200	304.58@1600	131.1@1600	45.15@1600	EM EC SPL
6068HN054	6068H	173.00@2400	67.70@2400	67.91@2400	506.64@1500	85.6@1500	52.25@1500	EM EC SPL

D.F. TC  
CAI