

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)
2005	5JDXL06.8039	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Smoke Puff Limiter, Direct Diesel Injection, Electronic Control Module, Turbocharger, Charge Air Cooler			Tractor, Compressor, Generator Set, 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 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT	-	-	6.1	1.0	0.27	12	6	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 18<sup>TH</sup> day of August 2004.

  
 Allen Lyons, Chief  
 Mobile Source Operations Division

# Engine Model Summary Form

Manufacturer: **Deere Power Systems Group of Deere and**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **5JDXL06.8039**  
 Mfr Family Name: **350HD**  
 Class Code: **New Submission**

*Attachment 1 of 2*  
*U-R-004-0208*

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
6068HRW60A	6068H	154.89@2100	78.30@2100	55.45@2100	516.23@1400	102.9@1400	48.59@1400	EM EC SPL 0 <i>DP, R, etc</i>
4045HF275A	4045H	139.47@2400	99.70@2400	54.02@2400	405.98@1440	128@1440	41.01@1440	EM EC SPL 0
6068HRT70	6068H	156.10@2200	79.00@2200	56.88@2200	494.11@1400	98.1@1400	44.98@1400	EM EC SPL 0
6068HRT71	6068H	173.40@2200	87.40@2200	63.06@2200	562.69@1400	108@1400	49.39@1400	EM EC SPL 0
4045HF275G	4045H	144.84@1800	133.70@1800	54.02@1800				EM EC SPL 0
4045HZ060	4045H	115.33@2200	88.00@2200	42.11@2200	336.21@1400	106.8@1400	32.41@1400	EM EC SPL 0
4045HTJ75	4045H	115.33@2000	93.80@2000	42.11@2000	367.26@1400	110.3@1400	34.73@1400	EM EC SPL 0
4045HTJ76	4045H	115.33@2000	93.80@2000	42.11@2000	367.26@1400	110.3@1400	34.73@1400	EM EC SPL 0
4045HTJ77	4045H	115.33@2000	93.80@2000	42.11@2000	367.26@1400	110.3@1400	34.73@1400	EM EC SPL 0
4045HF275H	4045H	156.90@1800	139.30@1800	56.44@1800				EM EC SPL 0
4045HRT71	4045H	109.30@2200	83.80@2200	41.45@2200	320.80@1400	97@1400	30.87@1400	EM EC SPL 0
6068HF275M	6068H	173.00@2000	91.00@2000	61.29@2000	545.73@1400	107.6@1400	50.71@1400	EM EC SPL 0
6068HTJ75	6068H	160.93@2000	84.10@2000	56.80@2000	527.29@1400	104.9@1400	49.56@1400	EM EC SPL 0
6068HTJ77	6068H	173.00@2000	91.60@2000	61.95@2000	575.23@1400	109.9@1400	51.81@1400	EM EC SPL 0
6068HTJ76	6068H	173.00@2000	91.60@2000	61.95@2000	575.23@1400	109.9@1400	51.81@1400	EM EC SPL 0
6068HDW63	6068H	173.00@2200	87.10@2200	64.60@2200	560.48@1400	105.9@1400	50.00@1400	EM EC SPL 0
6068HRW60B	6068H	139.47@2100	71.30@2100	50.49@2100	463.87@1400	91.6@1400	43.26@1400	EM EC SPL 0
4045HT051	4045H	120.70@2200	90.80@2200	44.91@2200	383.49@1400	118.3@1400	37.26@1400	EM EC SPL 0
6068HT058B	6068H	173.00@2100	87.60@2100	62.02@2100	569.33@1400	109.3@1400	51.61@1400	EM EC SPL 0
6068HT058A	6068H	167.63@2100	84.30@2100	59.75@2100	551.63@1400	106.3@1400	50.20@1400	EM EC SPL 0
6068HTJ53	6068H	173.00@2000	91.30@2000	61.60@2000	574.49@1400	106.6@1400	50.36@1400	EM EC SPL 0
4045HRT72	4045H	119.36@2200	89.80@2200	44.43@2200	361.36@1500	111.5@1500	37.62@1500	EM EGR SPL 0
5HT051A	4045H	108.63@2200	80.30@2200	39.71@2200	337.03@1400	101.6@1400	32.02@1400	EM EGR SPL 0
5HT051B	4045H	115.33@2200	86.00@2200	42.55@2200	368.74@1400	119.3@1400	37.57@1400	EM EGR SPL 0

# Engine Model Summary Form

*Attachment 2 of 2*  
*U-12-002-0208*

Manufacturer: **Deere Power Systems Group of Deere and**  
 Line category: **Nonroad CI**  
 Engine Family: **5JDXL06.8039**  
 Model Name: **350HD**  
 Process Code: **Running Change**

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
168HRW71A	6068H	154.89@2100	77.90@2100	55.19@2100	511.80@1400	104@1400	49.15@1400	EM EC SPL <i>DE, TC, CAT</i>
168HRW71B	6068H	139.47@2100	71.90@2100	50.93@2100	461.66@1400	93@1400	43.92@1400	EM EC SPL <i>↓</i>