

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)
2004	4JDXL06.8039	4.5, 6.8	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
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 23<sup>RD</sup> day of December 2003.

  
 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: **4JDXL06.8039**  
 Mfr Family Name: **350HD**  
 Process Code: **New Submission**

*Attachment 1 of 2*  
 J-R-004-0171

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
6068HRT70	6068H	156.10@2200	79.00@2200	56.86@2200	494.11@1400	98.1@1400	44.98@1400	EM EC
6068HRT71	6068H	173.40@2200	87.40@2200	63.06@2200	562.69@1400	108@1400	49.39@1400	EM EC
4045HF275A	4045H	139.47@2400	99.70@2400	54.02@2400	405.98@1440	128@1440	41.01@1440	EM EC

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Manufacturer: **Deere Power Systems Group of Deere and**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **4JDXL06.8039**  
 Mfr Family Name: **350HD**  
 Dis Code: **Running Change**

*Attachment 2 of 2*  
*U-R-004-0171*

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 Devices Per SAE J1930
✓ 4045HRT72	4045H	119.36 @ 2200	89.80 @ 2200	44.43 @ 2200	361.36 @ 1500	111.5 @ 1500	37.62 @ 1500	EM EGR SPL <i>ECM, LDC</i>
✓ 4045HT051A	4045H	108.63 @ 2200	80.30 @ 2200	39.71 @ 2200	337.03 @ 1400	101.6 @ 1400	32.02 @ 1400	EM EGR SPL
✓ 4045HT051B	4045H	115.33 @ 2200	86.00 @ 2200	42.55 @ 2200	368.74 @ 1400	119.3 @ 1400	37.57 @ 1400	EM EGR SPL