



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	5JDXL06.8049	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			Pump, 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
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	-	-	5.8	0.9	0.13	17	4	36

**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: **5JDXL06.8049**  
 Mfr Family Name: **350HH**  
 Class Code: **New Submission**

*Attachment 1 of 2*  
 U-R-004-0211

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
6068HF475B	6068H	274.91@2400	119.70@2400	96.79@2400	843.27@1400	160.86@1400	75.91@1400	EM EC SPL 0
4045HF475A	4045H	173.00@2400	114.00@2400	61.56@2400	475.67@1400	140.2@1400	45.40@1400	EM EC SPL 0
6068HF475C	6068H	274.91@2400	117.90@2400	95.46@2400	755.90@1400	145@1400	68.35@1400	EM EC SPL 0
6068HF475D	6068H	250.78@2200	115.60@2200	85.76@2200	755.90@1400	145.2@1400	68.57@1400	EM EC SPL 0
4045HF475B	6068H	159.59@2200	113.70@2200	56.27@2200	475.67@1400	139.9@1400	44.05@1400	EM EC SPL 0
4045HF475C	4045H	191.77@1800	163.60@1800	66.21@1800				EM EC SPL 0
6068HF475E	6068H	313.80@1800	175.00@1800	106.27@1800				EM EC SPL 0
6068HZ470	6068H	278.94@2400	121.10@2400	98.11@2400	698.38@1800	133.4@1800	80.94@1800	EM EC SPL 0
4045HF475E	6068H	173.00@2200	124.80@2200	61.73@2200	516.23@1400	152.5@1400	49.39@1400	EM EC SPL 0

# Engine Model Summary Form

Manufacturer: **John Deere Power Systems of Deere and**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **5JDXL06.8049**  
 Mfr Family Name: **350HH**  
 Model Code: **Running Change**

*Attachment 2 of 3*  
*U.R-004-0211*

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
6068HTJ54	6068H	225.30@2200	105.00@2200	77.17@2200	755.90@1400	145.2@1400	68.57@1400	EM EC SPL, DOE, TC <i>CAE</i>
<i>✓ Added</i>								

# Engine Model Summary Form

Manufacturer: **John Deere Power Systems of Deere and**  
 Engine category: **Nonroad CI**  
 EPA Engine Family: **5JDXL06.8049**  
 Mfr Family Name: **350HH**  
 s Code: **Running Change**

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U-R-004-0211

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
6068HN052	6068H	250.78@2200	115.60@2200	85.76@2200	755.90@1400	145.2@1400	68.57@1400	EM EC SPL <del>DP</del> TC, CAC