

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0175 New Off-Road Compression-Ignition Engines

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	4JDXL06.8049	4.5, 6.8	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Smoke Puff Limiter, Engine Modification, 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	EMISSION STANDARD		EXHAUST (g/kW-hr)					OPACITY (%)		
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
130 <u><</u> 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	1.0	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 23th 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:

4JDXL06.8049

Mfr Family Name: 350HH

's Code:

Running Change

Attachamt 2 of 2 U-R-004-0175

4.Fuel Rate:

6.Torque @ RPM (SEA Gross)

7.Fuel Rate: mm/stroke@peak

8.Fuel Rate:

9.Emission Control

1.Engine Code ✓ 6068HN051

6068H

2.Engine Model

3.BHP@RPM (SAE Gross) 225.30@2400 mm/stroke @ peak HP (for diesel only) 81.50@2400

5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) 77.61@2400

626.11@1800

torque 104@1800 (lbs/hr)@peak torque Device Per SAE J1930

74.52@1800

EM EGR SPL K, &AC

Engine woder Summary Form

Manufacturer: Deere Power Systems Group of Deere and

Engine category: Nonroad C1
EPA Engine Family: 4JDXL06.8049

Mfr Family Name: 350HH

ocess Code: New Submission

Attachment 1 of 4-R-004-0175

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	S.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
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6068HRW54B	6068H	206.52@2100	/100.00@2100	² 70.77@2100	680.68@1400	131.9@1400	62.31@1400	EM EC 0
. 6068HDW61.	€€ ¥6068H : \$#\$	175.68@2180	83.00@2180	3-61.05@2180 \$	634.22@1400	120.9@1400	್ಲಿ 57.08@1400≾	EMECO LE
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Engine Model Summary Form

anufacturer:

Deere Power Systems Group of Deere and

igine category:

Nonroad CI

PA Engine Family.

4JDXL06.8049

fr Family Name.

350HH

:Code

Running Change

U-R-004-0175

3.BHP@RPM

(for diesel only)

4.Fuel Rate. 5.Fuel Rate: mm/stroke @ peak HP (for diesel only) (for diesels only)

6.Torque @ RPM (SEA Gross)

7.Fuel Rate: mπ/stroke@peak torque

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

Attachment 2 of 2

EM SPL 0

√6068HF475G

hEngine Code 2.Engine Model 6068H

(SAE Gross) 281.62@1800

132.00@1800

94.36@1800