



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 CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
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	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 23RD day of December 2003.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

Attachment 2 of 2
U-R-004-0175

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**

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
✓ 6068HN051	6068H	225.30@2400	81.50@2400	77.61@2400	626.11@1800	104@1800	74.52@1800	EM EGR SPL <i>R, SAC</i>

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
 Process Code: New Submission

Attachment 1 of 1
 U-R-204-0175

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 0
4045HF475A	4045H	173.00@2400	114.00@2400	61.56@2400	475.67@1400	140.2@1400	45.40@1400	EM EC 0
6068HF475C	6068H	274.91@2400	117.90@2400	95.46@2400	755.90@1400	145@1400	68.35@1400	EM EC 0
6068HF475D	6068H	250.78@2200	115.60@2200	85.76@2200	755.90@1400	145.2@1400	68.57@1400	EM EC 0
4045HF475B	6068H	159.59@2200	113.70@2200	56.27@2200	475.67@1400	139.9@1400	44.05@1400	EM EC 0
6068HH054	6068H	265.53@2400	113.30@2400	91.72@2400	659.30@1800	127.2@1800	77.17@1800	EM EC 0
6068HH055	6068H	278.94@2400	121.10@2400	98.11@2400	698.38@1800	133.4@1800	80.94@1800	EM EC 0
4045HF475C	4045H	191.77@1800	163.60@1800	66.21@1800				EM EC 0
6068HF475E	6068H	313.80@1800	175.00@1800	106.27@1800				EM EC 0
6068HZ470	6068H	278.94@2400	121.10@2400	98.11@2400	698.38@1800	133.4@1800	80.94@1800	EM EC 0
4045HF475E	6068H	173.00@2200	124.80@2200	61.73@2200	516.23@1400	152.5@1400	49.39@1400	EM EC 0
6068HH057	6068H	278.94@2400	121.10@2400	98.11@2400	698.38@1800	133.4@1800	80.94@1800	EM EC 0
6068HRW54A	6068H	189.09@2100	92.00@2100	65.24@2100	622.42@1400	122@1400	57.54@1400	EM EC 0
6068HRW54B	6068H	206.52@2100	100.00@2100	70.77@2100	680.68@1400	131.9@1400	62.31@1400	EM EC 0
6068HDW61	6068H	175.68@2180	83.00@2180	61.05@2180	634.22@1400	120.9@1400	57.08@1400	EM EC 0
6068HDW57	6068H	177.02@2200	82.50@2200	61.29@2200	612.10@1400	114.7@1400	54.15@1400	EM EC 0

Engine Model Summary Form

Attachment 2 of 2
U-R-004-0175

Manufacturer: **Deere Power Systems Group of Deere and**
 Engine category: **Nonroad CI**
 Model Engine Family: **4JDXL06.8049**
 Model Family Name: **350HH**
 Model Code: **Running Change**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm ³ /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 ³ /stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068HF475G	6068H	281.62@1800	132.00@1800	94.36@1800				EM SPL 0 ▲