California Environmental Protection Agency AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0207 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)
2005	5JDXL06.8038	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
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
		CERT	-	-	5.9	0.6	0.18	16	4	46

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 18TH 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: **5JDXL06.8038**

Mfr Family Name: **350HC**

cess Code: **New Submission**

Attachment 1 of 2
(1-X 009-010)

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
6068HF275A	6068H	249.44@2400	112.00@2400	90.39@2400	690.27@1400	133.0@1400	62.62@1400	EM EC SPL 0 DOC, TC, CNC
6068HZ060	6068H	217.25@2400	98.10@2400	79.37@2400	618.74@1800	122@1800	74.08@1800	EM EC SPL 0
6068HF275C	6068H	225.30@2400	101.40@2400	81.57@2400	616.52@1400	118@1400	55.78@1400	EM EC SPL 0
6068HF275D	6068H	199.82@2200	97.20@2200	70.55@2200	595.88@1400	116@1400	54.90@1400	EM EC SPL 0
6068HF275E	6068H	199.82@2400	90.60@2400	72.76@2400	568.59@1400	110@1400	52.03@1400	EM EC SPL 0
6068HF275F	6068H	185.07@2400	84.00@2400	66.14@2400	526.55@1400	101.4@1400	47.84@1400	EM EC SPL 0
6068HT055	6068H	189.09@2150	94.30@2150	68.35@2150	553.84@1400	106@1400	50.05@1400	EM EC SPL 0
6068HF275G	6068H	225.30@2200	108.40@2200	80.47@2200	671.83@1400	129.5@1400	61.07@1400	EM EC SPL 0
6068HF275H	6068H	210.55@2000	111.00@2000	74.74@2000	663.72@1400	129.5@1400	61.07@1400	EM EC SPL 0
6068HF275I	6068H	250.78@2400	111.70@2400	90.39@2400	685.85@1400	132@1400	62.62@1400	EM EC SPL 0
6068HF275J	6068H	250.78@1800	143.40@1800	87.09@1800				EM EC SPL 0
6068HRT72	6068H	190.43@2200	106.00@2200	47.84@2200	605.46@1400	90.3@1400	28.44@1400	EM EC SPL 0
6068HF275K	6068H	281.62@1800	160.30@1800	97.23@1800				EM EC SPL 0
6068HF275L	6068H	219.93@1800	126.80@1800	76.95@1800				EM EC SPL 0
6068HT054	6068H	179.70@2100	91.40@2100	63.94@2100	539.09@1400	104@1400	49.39@1400	EM EC SPL 0

Engine Model Summary Form

Attachment 2 of 2

M-A-004-0207

Manufacturer: **Deere Power Systems Group of Deere and**

Engine category: **Nonroad CI**

EPA Engine Family: **5JDXL06.8038**

M ily Name: **350HC**

Process 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
6068HT065	6068H	189.09@2150	94.30@2150	68.35@2150	553.84@1400	106.0@1400	50.05@1400	EM EC SPL DDI, CAC