

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-83
Relating to Certification of New Off-Road Compression-Ignition Engines

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

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-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment:

Model Year: 2001

Typical Equipment Usage: Loader

Fuel Type: Diesel

	Engine Displacement	Useful Life	Emission Control Systems and Special Features
<u>Engine Family</u>	<u>(liters)</u>	<u>(hours)</u>	
1JDXL06.8013	6.8	8000	Direct Diesel Injection Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

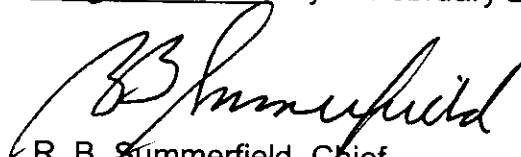
Engine Power Rating (kw)	Emission Standard Category		Exhaust Emissions (g/kw-hr)					Smoke Opacity (%)		
			HC	NOx	NMHC+NOx	CO	PM	Accel	Lug	Peak
130≤KW<225	Tier 1	Standard	1.3	9.2	N/A	11.4	0.54	20	15	50
		Certification	0.3	7.4	--	0.8	0.23	8	6	14

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 and 2426).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 6th day of February 2001.


R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model Summary Form

ED# U-R- 83

Manufacturer: **Deere Power Systems Group of Deere & Company**
 Engine category: **Nonroad CI**
 EPA Engine Family: **1JDXL06.8013**
 Mfr Family Name: **350HB**
 Process Code: **New Submission**

ATTACHMENT

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
6068HF250A	6068H	235@2400	175	110@2400	681@1400	130@1400	60@1400	EM, TC, CAC, <i>ppd</i>
6068HF250B	6068H	225@2400	168	101@2400	621@1400	119@1400	55@1400	EM, TC, CAC, <i>ppd</i>
6068HDW50	6068H	170@2200	127	83@2200	590@1400	113@1400	49@1400	EM, TC, CAC, <i>ppd</i>
6068HT051	6068H	180@2100	134	89@2100	539@1400	106@1400	49@1400	EM, TC, CAC, <i>ppd</i>
6068HT050	6068H	188@2200	140	90@2200	583@1400	114@1400	52@1400	EM, TC, CAC, <i>ppd</i>
6068HT052	6068H	189@2150	141	93@2150	554@1400	109@1400	50@1400	EM, TC, CAC, <i>ppd</i>
6068HDW53	6068H	150@2000	112	81@2000	525@1100	101@1100	37@1100	EM, TC, CAC, <i>ppd</i>
6068HDW55	6068H	170@2000	127	95@2000	568@1000	117@1000	39@1000	EM, TC, CAC, <i>ppd</i>
6068HF250C	6068H	198@1800	148	113@1800	NA	NA	NA	EM, TC, CAC, <i>ppd</i>
6068HT056	6068H	188@2200	140	90@2200	583@1400	114@1400	52@1400	EM, TC, CAC, <i>ppd</i>
6068HT057	6068H	188@2200	140	90@2200	583@1400	114@1400	52@1400	EM, TC, CAC, <i>ppd</i>
6068HF250D	6068H	225@2400	168	100@2400	672@1400	127.7@1400	60@1400	EM, TC, CAC, <i>ppd</i>
6068HDW58	6068H	174@2190	130	88.6@2190	590@1300	108.3@1300	47@1300	EM, TC, CAC, <i>ppd</i>

EPA cert NO: JDX-NRB-01-09