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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-77 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: Tractor

Fuel Type: Diesel

Engine Family 1JDXL08.1024	Engine Displacement (<u>liters)</u> 8.1	Useful Life (hours) 8000	Emission Control System <u>and Special Features</u> Direct Diesel Injection Turbocharger Charge Air Cooler
1JDXL08.1024	8.1	8000	

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 <u>Rating (kw)</u> 130 <u><</u> KW<225	Emission Standard <u>Category</u> Tier 1		Exhaust Emissions (g/kw-hr)				Smoke Opacity (%)			
			<u>HC</u>	<u>NOx</u>	NMHC+NO _X	co	PM	Accel	Lug	Peak
		Standard	1.3	9.2	N/A	11.4	0.54	20	15	50
		FEL	N/A	8.8	N/A	N/A	N/A	N/A	N/A	N/A
		Certification	0.7	6.2		0.9	0.25	10	3	18

BE IT FURTHER RESOLVED: That the above-described certification is subject to the following terms, limitations and conditions:

The above family emission limit(s) (FELs) is an emission level declared by the manufacturer to serve for the averaging, banking and trading program and in lieu of an emission standard for certification. It represents the emission standard applicable to this engine family that must be applied when determining compliance of any model within this engine family pursuant to 13 CCR Section 2423(b)(2).

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

day of February 2001

Ř. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model S⁷ mary Form

ATTACHMENT

Manufacturer: Engine category: Deere Power Systems Group of Deere & Company

Nonroad CI

EPA Engine Family: 1JDXL08.1024

Mfr Family Name: 450HC

Process Code:

New Submission

1804 KW 4 225

1.Engine Code 6081HF001E 6081HRW02 6081HRW06 6081HRW07 6081HRW09 6081HRW10 6081HRW11 6081HRW12 6081HRW13 6081HRW13	2.Engine Model 6081H 6081H 6081H 6081H 6081H 6081H 6081H 6081H 6081H	4.Fuel Rate: mm/stroke @ peak Hf (SAE Gross) 284@2200 2/2 137.9@2200 223@2200 144 92@2200 241@2200 180 115@2200 247@2200 144 95@2200 200@2200 149 95.4@2200 224@2200 149 95.4@2200 224@2200 149 106@2200 224@2200 149 95.4@2200 224@2200 149 106@2200 224@2200 149 106@2200 224@2200 149 106@2200	(for diesels only) 102@2200 79@2200 67@2200 77@2200 84@2200 86@2200 69@2200 71@2200 71@2200 78@2200	6.Torque @ RPM (SEA Gross) 873@1400 758@1400 758@1400 758@1400 785@1200 805@1200 758@1400 813@1400 813@1400 813@1400	7.Fuel Rate: mm/stroke@peak torque 189.8@1400 144.5@1400 144.5@1400 157@1200 161@1200 144.5@1400 150.5@1400 150.5@1400 149@1400	89@1400 p	- TO CAC EM
	6081H 6081H	224@2200 107 106@2200 247@2200 16 116@2200	78@2200 78@2200 86@2200	813@1400 813@1400 813@1400			hara a a garage
0001111/0410	6081H	247@2200 [84 116@2200	86@2200	813@1400	149.7@1400	t the state of the contract of	TC, CAC, EM

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