State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-55

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 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 Deere Power Systems Group of Deere & Company 1999 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage:

Tractor, Pump, Compressor, and Other OEM

Products

Fuel Type: Diesel

Engine Family		lacement Cubic Inches	Exhaust Emission Control Systems and Special Features
XJDXL10.5003 (550HA)	10.5	641	Turbocharger Charge Air Cooler Electronic Control Module

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 total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matters (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

<u>Exhaus</u>	t Emission	ns (g/bhp-l	<pre>Smoke Opacity (%)</pre>				
THC	CO	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	Lug	<u>Peak</u>	
1.0	8.5	6.9	0.4	20	15	50	

Engine Model Summary Form

Manufacturer: Deere Power Systems Group of Deere & Company

Engine category: Nonroad Over 50 Hp

EPA Engine Family: XJDXL10.5003

Mfr Family Name: 550HA

Process Code: New Submission

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