## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-R-4-62 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 at Sections 43000.5, 43013, and 43018 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

IT IS ORDERED AND RESOLVED: That the following diesel engines and exhaust emission control systems produced by the manufacturer are certified as described below for use in heavy-duty off-road equipment:

Model Year: 2000

Typical Equipment Usage: Other OEM Products

Engine Power Ratings Range: 175 - 750 horsepower, inclusive

Fuel Type: Diesel

Engine Family	Displa	acement	Exhaust Emission Control						
	<u>Liters</u>	<u>Cubic Inches</u>	Systems and Special Features						
YJDXL12.5002 (650AA)	12.5	763	Charge Air Cooler Turbocharger Electronic Control Module						

The 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 in grams per brake horsepower-hour (g/bhp-h) for total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM), 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):

<u>Exh</u>	aust Emi	issions (d	Smoke Opacity (%)									
Standard Certification	<u>THC</u> 1.0 0.2	<u>CO</u> 8.5 0.5	<u>NOx</u> 6.9 6.0	<u>PM</u> 0.4 0.1	<u>Accel</u> 20 10	<u>Lug</u> 15 1	<u>Peak</u> 50 17					

BE IT FURTHER RESOLVED: That the listed engine models comply with "Exhaust Emission Standards and Test Procedures—Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels—1996 and Later Heavy-Duty Off-Road Diesel-Cycle 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 et seq.).

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

Executed at El Monte, California this \_

day of January 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

## Engine Model Sur nary Form

Deere Power Systems Group of Deere & Company Manufacturer:

Engine category: Nonroad CI
EPA Engine Family: YJDXL12.5002

Mfr Family Name: 650AA

New Submission Process Code:

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9.Emission Control Device Per SAE J1930	EM, EC, CAC, TC	EM, EC, CAC, τ΄τ	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC,	EM, EC, CAC, 🤸	FM FC CAC TC		The second secon	I I MANUAL TO THE REAL PROPERTY OF THE PARTY	The second district the second							The state of the s			
8.Fuel Rate: (lbs/hr)@peak torque [	125@1400	96@1500	101@1400	107@1400	115@1400	123@1400	100@1500	101@1400	101@1400	107@1400	N/A	N/A	A/M				The second section of the second seco				The second section of the second section is a second section of the second section sec		The second secon				
r.ruel hate. mm/stroke@peak torque	265@1400	190@1500	214@1400	226@1400	244@1400	260@1400	197@1500	214@1400	214@1400	226@1400	N/A	N/A	V/IV	UN			A 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				· market market and a market m				The second secon	The second secon	THE RESERVE THE PROPERTY OF TH
6.Torque @ RPM (SEA Gross)	1376@1400	965@1500	1125@1400	1181@1400	1268@1400	1349@1400	1002@1500	1098@1400	1098@1400	1181@1400	N/A	N/A	NI/A	NA	 The second secon						The second secon				man a constituent de la constituent de	a de la calegra de manaciones dels constantes de la calegra de manaciones de la calegra de la calegr	
5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)	144@2100	98@2000	119@2100	124@2100	133@2100	141@2100	98@2000	114@2100	114@2100	124@2100	137@1800	125@1800		115@1800				THE PART OF THE PA		the state of the s		A remainder of the contract of			I I I I I I I I I I I I I I I I I I I	The second secon	
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	204@2100	144@2000	168@2100	175@2100	187@2100	199@2100	144@2000	160@2100	160@2100	175@2100	225@1800	206@1800	201 907	189@1800						Commence of the second					Processing the state of the sta		
3.BHP@RPM (SAE Gross)	408@2100	000000000	339@2100	250@2100	375@2100	400@2100	283@2000	325@2100	325@2100	350@2100	442@1800	400@1800	402 @ 1000	375@1800												The second secon	
2. Fnaine Model	E-195A	61057	61057	0123A 6105A	61238	6125A	6125A	61954	6125A	61054	0123A 8125A	4 10 V	D123A	6125A													
1 Engine Code	CADE A EOOT A	OLEJAL UOTA	6125AUW01	6125AF001B	6125AF001C	6125AF001D	6123AF001E	S125000VCC	6125AF0011	6123AF 001G	6125A1801	6125AF001F1	6125AF0011	6125AF001J											mention and the second production of the second second		