## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-R-4-76 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: Dozer

Engine Power Ratings Range: 175 – 750 horsepower, inclusive

Fuel Type: Diesel

Engine Family	Displa	cement	Exhaust Emission Control
	<u>Liters</u>	<u>Cubic Inches</u>	Systems and Special Features
YJDXL06.8015 (350TB)	6.8/4.5	415/274	Turbocharger

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>Ex</u> h	naust Em	issions (	Smoke Opacity (%)								
Standard Certification	<u>THC</u> 1.0 0.2	<u>CO</u> 8.5 0.8	<u>NOx</u> 6.9 5.5	<u>PM</u> 0.4 0.2	<u>Accel</u> 20 10	<u>Lug</u> 15 8	<u>Peak</u> 50 24				

BE IT FURTHER RESOLVED: That the engine models listed on the attachments with engine power ratings less than 175 horsepower are not covered by this Executive Order.

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

Manufacturer: Deere Power Systems Group of Deere & Company

Engine category: Nonroad CI

EPA Engine Family: YJDXL06.8015

Mfr Family Name: 350TB

Process Code: New Submission

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9.Emission Control Device Per SAE J1930	EM, TC	EM, TC	EM, TC	EM, TC	EM, TC	EM, TC	EM, TC	EM, TC	EM, TC	EM, TC	EM, TC	EM. TC				To a little and the little and the second and the s											
8.Fuel Rate: (lbs/hr)@peak torque	19@1400	29@1400	31@1400	39@1400	47@1400	47@1400	47@1400	19@1400	22@1200	22@1200	29@1400	54@1500	to commence a desirable or management and all commences or desirable		the city of the control to the control to the control to the control to the city of the ci		and contained references to seem to the contained of formation	COMPANY OF THE PROPERTY OF THE				makan darah sa hari dakeramakan sa sa samerah mada daka sa			The state of the s		
7.Fuel Rate: mm/stroke@peak torque	107@1400	93@1400	101@1400	85@1400	102@1400	102@1400	101@1400	103@1400	81@1200	81@1200	93@1400	106.1@1500	special and the second		exercise and a constraint of the second of t			NOTICE TO A STATE OF THE MANAGES OF A STATE				uden - rem edere - m edere energement manne edmeredensk densembre de eren		consistences robbs the district either classic recent	e e de la companya de		
6.Torque @ RPM (SEA Gross)	509@1400	298@1400	328@1400	432@1400	494@1400	494@1400	499@1400	503@1400	272@1200	272@1200	298@1400	535@1500	The second secon	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				A AA A AA						terminal to the continue to the best to the bottom to the continue to the cont	en manere andre en		
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	74@2400	41@2300	47@2400	52@2150	57@2200	57@2200	58@2200	71@2400	34@2200	34@2200	41@2300	71@2400		A STATE OF THE PARTY OF THE PAR	Common common communication of the common co								-	to the comment comment of the first control of the first personal			
4.Fuel Rate: mm/stroke @ peak HP (for diesel onty)	93@2400	80@2300	89@2400	73@2150	79@2200	79@2200	80@2200	89@2400	69@2200	69@2200	80@2300	88.1@2400		to Paris	The second of the second secon												
3.BHP@RPM (SAE Gross)	194@2400	109@2300	125@2400	148@2150	157@2200	157@2200	161@2200	185@2400	93@2200	93@2200	109@2300	185@2400								•							The second secon
2.Engine Model	6068T	4045T	4045T	6068T	6068T	6068T	6068T	6068T	4045T	4045T	4045T	6068T												***************************************			
1.Engine Code	6068TF250A	4045TT055	4045TF250	6068TT051	6068TDW52	6068TDW55	6068TT053	6068TF250B	4045TT052	4045TP051	4045TP053	6068TN053															