

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-75  
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: Loaders, Tractor, Dozer, Pump, Compressor and Generator Set

Engine Power Ratings Range: 175 – 750 horsepower, inclusive

Fuel Type: Diesel

<u>Engine Family</u>	<u>Displacement</u>		<u>Exhaust Emission Control Systems and Special Features</u>
	<u>Liters</u>	<u>Cubic Inches</u>	
YJDXL06.8014 (350TA)	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>Exhaust Emissions (g/bhp-h)</u>				<u>Smoke Opacity (%)</u>		
	<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
Standard	1.0	8.5	6.9	0.4	20	15	50
Certification	0.3	0.7	5.4	0.2	8	7	18

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 24<sup>th</sup> day of January 2000.



R. B. Summerfield, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

**Manufacturer:** Deere Power Systems Group of Deere & Company  
**Engine category:** Nonroad CI  
**EPA Engine Family:** YJDXL06.8014  
**Mfr Family Name:** 350TA  
**Process Code:** New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm <sup>3</sup> /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 <sup>3</sup> /stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068TF250A	6068T	194@2400	90@2400	71@2400	507@1400	104@1400	48@1400	EM, TC
4045TE050	4045T	100@2500	69@2500	38@2500	275@1400	83@1400	26@1400	EM, TC
4045TF150B	4045T	100@2500	69@2500	38@2500	275@1400	83@1400	26@1400	EM, TC
4045TN050	4045T	106@2200	78@2200	38@2200	291@1400	88@1400	27@1400	EM, TC
4045TDW50	4045T	114@2200	83@2200	40@2200	328@1400	103@1400	31@1400	EM, TC
4045TF150A	4045T	115@2500	77@2500	43@2500	291@1400	91@1400	28@1400	EM, TC
4045TF250A	4045T	125@2400	87@2400	46@2400	328@1400	101@1400	31@1400	EM, TC
6068TRW50	6068T	118@2100	60@2100	42@2100	384@1300	76@1300	33@1300	EM, TC
6068TT050	6068T	123@2200	61@2200	44@2200	388@1200	76@1200	30@1200	EM, TC
6068TDW51	6068T	126@2200	62@2200	45@2200	400@1200	80@1200	34@1200	EM, TC
6068TDW54	6068T	126@2200	62@2200	45@2200	400@1200	80@1200	34@1200	EM, TC
6068TRW51	6068T	129@2100	66@2100	46@2100	419@1300	84@1300	36@1300	EM, TC
6068TDW50	6068T	142@2200	69@2200	51@2200	446@1400	90@1400	42@1400	EM, TC
6068TRW52	6068T	141@2100	72@2100	50@2100	458@1300	92@1300	40@1300	EM, TC
6068TDW56	6068T	148@2100	76@2100	53@2100	442@1300	90@1300	39@1300	EM, TC
6068TF150B	6068T	155@2500	70@2500	58@2500	425@1200	86@1200	34@1200	EM, TC
6068TN051	6068T	157@2200	76@2200	55@2200	450@1300	88@1300	39@1300	EM, TC
6068TF150A	6068T	170@2500	78@2500	65@2500	448@1200	94@1200	41@1200	EM, TC
6068TN050	6068T	185@2400	86@2400	68@2400	494@1400	100@1400	46@1400	EM, TC
6068TF250B	6068T	185@2400	86@2400	68@2400	494@1400	100@1400	46@1400	EM, TC
6068TT052	6068T	148@2100	76@2100	53@2100	441@1300	90@1300	39@1300	EM, TC
6068TE050	6068T	172@2300	82@2300	63@2300	482@1400	98@1400	45@1400	EM, TC
6068TF150D	6068T	157@2200	76@2200	55@2200	450@1300	88@1300	38@1300	EM, TC
6068TRW53	6068T	118@2100	60@2100	42@2100	384@1300	76@1300	33@1300	EM, TC
6068TRW54	6068T	129@2100	66@2100	46@2100	419@1300	84@1300	36@1300	EM, TC
4045TT061	4045T	78@2100	62@2100	29@2100	263@1200	80@1200	21@1200	EM, TC

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