California Environmental Protection Agency AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0120 New Off-Road Compression-Ignition Engines

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 engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2002	2JDXL06.8015	6.8, 4.5	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Turbocharger (some models), Direct Diesel Injection, Smoke Puff Limiter	Dozer, Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr); and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37≤ KW <75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
75≤ KW <130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
130≤ KW <225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.4	7.6	-	1.4	0.33	10	9	25

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 27th day of December 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model S··· ary Form

Manufacturer: **Deere Power Systems Group of Deere and**

Engine category: **Nonroad CI**

EPA Engine Family: **2JDXL06.8015**

Mfr Family Name: **350TB**

Process Code: **New Submission**

EO# U-R-4-120

ATTACHMENT 1 of 1

1.Engine Code	2.Engine Model	(kW)	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/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/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
6068TF250G	6068T	149.1	199.81@2400	96.80@2400	79.37@2400	587.02@1500	121.3@1500	60.91@1500	EM TC D.D.F
~~6068TT051~~	~~6068T~~	~~110.1~~	~~147.51@2150~~	~~73.00@2150~~	~~52.91@2150~~	~~432.15@1400~~	~~85.0@1400~~	~~39.68@1400~~	~~EM TC~~ Removed 1/18/02
6068TDW55	6068T	117.1	156.90@2200	80.10@2200	59.52@2200	492.63@1400	100.0@1400	48.50@1400	EM TC
6068TT053	6068T	120.1	160.92@2200	80.00@2200	57.32@2200	499.26@1400	101.0@1400	46.30@1400	EM TC
6068TF250H	6068T	138.1	185.06@2400	89.00@2400	70.55@2400	502.95@1400	103.0@1400	19.84@1400	EM TC
4045TT052	4045T	69.0	92.53@2200	69.00@2200	33.07@2200	272.12@1200	81.0@1200	22.05@1200	EM TC
6068TT059	6068T	120.1	160.92@2200	80.00@2200	57.32@2200	499.26@1400	101.0@1400	46.30@1400	EM TC
6068TF250I	6068T	149.1	199.81@2400	95.70@2400	77.16@2400	587.02@1500	119.4@1500	60.63@1500	EM TC
6068TTJ50	6068T	120.1	160.92@2200	80.00@2200	57.32@2200	499.26@1400	101.0@1400	46.30@1400	EM TC
6068TDW57	6068T	117.1	156.90@2200	84.00@2200	61.73@2200	538.35@1400	109.0@1400	50.71@1400	EM TC
6068TYC51	6068T	149.1	199.81@2400	95.70@2400	77.16@2400	587.02@1500	119.4@1500	60.63@1500	EM TC
4045TT055	4045T	81.1	108.62@2300	80.00@2300	41.89@2300	297.94@1400	93.0@1400	28.66@1400	EM TC
4045TF250	4045T	93.1	124.72@2400	89.00@2400	46.30@2400	328.17@1400	101.0@1400	30.86@1400	EM TC
4045TP051	4045T	69.0	92.53@2200	69.00@2200	33.07@2200	272.12@1200	81.0@1200	22.05@1200	EM TC
4045TP053	4045T	81.1	108.62@2300	80.00@2300	41.89@2300	297.94@1400	93.0@1400	28.66@1400	EM TC
6068TN053	6068T	138.1	185.06@2400	88.10@2400	70.55@2400	535.25@1500	106.1@1500	53.57@1500	EM
6068TN052	6068T	149.1	199.81@2400	95.70@2400	77.16@2400	587.02@1500	119.4@1500	60.63@1500	EM TC
6068TT058	6068T	120.1	160.92@2200	80.00@2200	57.32@2200	499.26@1400	101.0@1400	46.30@1400	EM TC