

Final

 California Environmental Protection Agency AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0128 New Off-Road Compression-Ignition Engines
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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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system 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	2JDXL06.8046	6.8, 4.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			Compressor, Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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
		FEL	-	-	-	-	0.29	-	-	-
		CERT	-	7.6	-	-	0.28	2	3	5

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 13TH day of May 2002.


 Allen Lyons, Chief
 New Vehicle/Engine Programs Branch

Engine Model Summary Form

EO# U-R-004-0128

ATTACHMENT 1 of 1

Manufacturer: Deere Power Systems Group of Deere and
 Engine category: Nonroad CI
 EPA Engine Family: 2JDXL06.8046
 Mfr Family Name: 350DE
 Process Code: New Submission

1. Engine Code	2. Engine Model (kw)	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm ³ /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 ³ /stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
* 6068DF150A	6068D	94 132.76@2500	60.00@2500	50.71@2500	342.18@1100	73@1100	26.46@1100	EM
4045DF150G	4045D	52 69.73@2500	48.20@2500	26.46@2500	207.23@1000	62.9@1000	14.11@1000	EM
4045DF150B	4045D	80.46@2500	55.00@2500	30.86@2500	217.55@1200	68@1200	17.64@1200	EM
4045DF150A	4045D	63 84.48@2500	58.00@2500	33.07@2500	228.61@1200	70@1200	17.64@1200	EM, DDI
4045DF150E	4045D	81.13@2400	58.00@2400	30.86@2400	223.45@1100	71@1100	17.64@1100	EM
4045DF150D/1	4045D	71.07@1800	67.00@1800	26.46@1800				EM
4045DF150C	4045D	77.78@2200	60.00@2200	28.66@2200	230.09@1200	72@1200	19.84@1200	EM