

 AIR RESOURCES BOARD	John Deere Power Systems	EXECUTIVE ORDER U-R-004-0316
		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-02-003;

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)
2008	8JDXL04.5107	4.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Electronic Control Module, Smoke Puff Limiter			Pump, Compressor, Generator Set	

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
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.1	2.3	0.19	1	2	2

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 14th day of December 2007.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Attachment

Manufacturer: John Deere Power Systems
 Engine category: Nonroad CI
 EPA Engine Family: 8JDXL04.5107
 Mfr Family Name: 350TAA
 Process Code: New Submission

0-R-004-0316

1.Engine Code	2.Engine Model	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
4045TF285A	4045T	99.24@2400	75.40@2400	40.72@2400	278.03@1600	89.7@1600	32.35@1600	EM EC SPL
4045TF285C	4045T	84.49@2400	64.90@2400	35.04@2400	231.57@1600	76.1@1600	27.39@1600	EM EC SPL
4045TF285D	4045T	84.49@2200	80.60@2200	34.46@2200	261.80@1600	85.1@1600	30.65@1600	EM EC SPL
4045TF285E	4045T	99.24@1800	92.70@1800	37.53@1800				EM EC SPL
4045TF285B	4045T	99.24@2400	77.10@2400	41.58@2400	261.80@1600	86.8@1600	31.24@1600	EM EC SPL

DDI, TC
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