

## DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0231 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)		
2005	5JDXL04.5043	4.5	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direc	t Diesel Injection, Engine	e Control Module	Loader			

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	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	-	-	7.2	3.1	0.32	6	5	13

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 \_\_\_\_\_\_\_ day of December 2004.

Allen Lyons, Chief

Mobile Source Operations Division

## **Engine Model Summary Form**

Deere Power Systems Group of Deere &

Nonroad CI

A Engine Family: 5JDXL04.5043

Samily Name:

350DC

New Submission

Attachment 193 4-R-004-0231

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
4045DT058	4045D	75.10@2300	56.90@2300	29.55@2300	213.87@1700	66.2@1700	25.14@1700	EMEC IN
4045DT059	4045D	75.10@2300	56.90@2300		213.87@1700	66.2@1700	1045	EM EC
4045DF275A	4045D	80.47@2500	54.50@2500	30.87@2500	217.00@1500	66.5@1500	22.01@1500	# EM ECTAL L
								A A CONTRACTOR
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## **Engine Model Summary Form**

Manufacturer:

John Deere Power Systems of Deere and

Engine category:

Nonroad CI

350DC

EPA Engine Family.

5JDXL04.5043

Mfr Family Name:

; Code:

2013 U-R-004-0231

1/Engine Code

J 4045DT060

**Running Change** 

2.Engine Model 4045D

3.BHP@RPM (SAE Gross) 75.10@2300

4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 56.90@2300

5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) 29.46@2300

6.Torque @ RPM (SEA Gross)

7.Fuel Rate: mm/stroke@peak torque

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

213.87@1700

66.2@1700

25.34@1700

EM SPL

**Engine Model Summary Form** 

Aanufacturer:

John Deere Power Systems of Deere and

Engine category:

Nonroad CI

5JDXL04.5043

Mfr Family Name:

350DC

s Code:

**Running Change** 

3 of 3 U-R0040231

1.Engine Code

2.Engine Model

3.BHP@RPM

4.Fuel Rate:

5.Fuel Rate: (lbs/hr) @ peak HP

6.Torque @ RPM (SEA Gross)

7.Fuel Rate:

(SAE Gross)

mm/stroke @ peak HP (for diesel only)

(for diesels only)

mm/stroke@peak

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

4045DT060

4045D

torque

EMEC DOT