

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)
2003	3JDXL04.5043	4.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Electronic Control Module			Tractor, Crane, Dozer, Pump, Compressor, Generator Set, 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
		FEL	-	7.3	-	-	-	-	-	-
		CERT	-	6.6	-	-	-	4	5	6

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 2nd day of January 2003.

Raphael Lyons
 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Attachment 1 of 2

U-1-004-014Z

Manufacturer: Deere Power Systems Group of Deere &
 Engine category: Nonroad CI
 EPA Engine Family: 3JDXL04.5043
 Mr Family Name: 350DC
 Process Code: New Submission

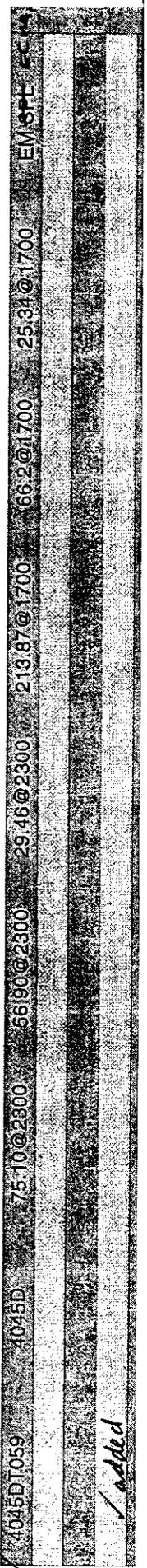
1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
4045DF275A	4045D	80.46 @ 2500	54.50 @ 2500	30.86 @ 2500	217.00 @ 1500	66.5 @ 1500	22.00 @ 1500	EM D07
4045DT057	4045D	75.10 @ 2300	56.90 @ 2300	28.66 @ 2300	213.86 @ 1700	65.5 @ 1700	25.13 @ 1700	EM
4045DT058	4045D	75.10 @ 2300	56.90 @ 2300	28.66 @ 2300	213.86 @ 1700	65.5 @ 1700	25.13 @ 1700	EM
4045DRT70	4045D	72.42 @ 2350	58.10 @ 2350	28.66 @ 2350	213.79 @ 1500	70.7 @ 1500	22.93 @ 1500	EM

Engine Model Summary Form

U-R-004-0142

Manufacturer: Deere Power Systems Group of Deere &
 Engine category: Nonroad CI
 EPA Engine Family: 3JDXL04.5043
 Mfr Family Name: 350DC
 Process Code: Running Change

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
4045DT059	4045D	75.10 @ 2800	56190 @ 2300	29.46 @ 2300	213.87 @ 1700	66.2 @ 1700	25.34 @ 1700	EM 8PI



Ladd

DPI