

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0103 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 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	2JDXL04.5043	4.5	Diesel	8000				
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Electron	nic Control Module, Dire	ct Diesel Injection,	Crane, Loader, Dozer, Pump, Tractor, Compressor, Generate					

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	EMISSION STANDARD				EXHAUST (g/kw-l		OPACITY (%)			
CLASS	CATEGORY		HC	NOx	NMHC+NO _X	СО	PM	ACCEL	LUG	PEAK
37 <u><</u> KW <75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
·		FEL	N/A	7.3	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	-	6.6	-	-		1 4	5	14/7

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

REB. Summerfield, Chief

Mobile Source Operations Division

Engine Model Summary Form

Deero Power Systems Group of Deere & Company Manufacturer:

Engine category: Honroad Cl EPA Engine Fank, 2JDXI.04.5043

Mir Family Name: 350DC

New Submission Process Code:

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8.Fuel Phis: 9.Emission Control (hs/h) ©pasik torque. Davice Per SAE J1930	500	1700	700						
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7.Fuel Rate: mm/stroke@peak lorque	6.5@1500	65.6@170	66.5@1700		200				
6.Torque @ RPM (SEA Gross)	217@1500	21.1@1700	214641700						
5.Fuel Rato: (lbs/hr) @ peak Ht? 6.* (for diesets only)	31@2500		30@2300						
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4.Fuet Rate: . nm/stroke @ peak (for dieset only)	54.5@2500	56.9@2300	56.9@23						
3.BHP@NPM (SAE Gross)	80@2500	75@2300	75@2300						
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LEngine Cods 2.Engine Medel	5DF275A	(5DT057	40/5DT058						
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