

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0123 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 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)		
2002	2JDXL04.5028	4.5	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Direct Diesel Injec	ction	Loader, 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 (%)			
			нс	NOx	NMHC+NOx	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	10.2	N/A	N/A	N/A	N/A	N/A	N/A
	<u> </u>	CERT	_	8.5	-	-	-	4	6	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 _

_ day of December 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

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E3# 4. R-4-123

Deere Power Systems Group of Deere and Manufacturer

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Nonroad CI Engine category:

2JDXL04.5028 EPA Engine Family. Mfr Family Name: New Submission Process Code:

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350DD

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8.Fuel Rate: 9.Emission Control (Ibs/ht) 4 peak torque Device Per SAE J1930 #17.64@1100 WEN EM DAY A COLOR OF THE STATE OF THE STA THE PROPERTY. 17.64@1100 100 A.L.A. No. 71@1100哥 **地林的** mm/stroke@peak 71@1100 7.Fuel Rato; 30.86@2400\@\\$223,45@1100\ 77.73 1 2 2 100 223.45@1100 6.Torque @ RPM (SEA Gross) Transfer of (lbs/hr) @ peak HP 30.86@2400 (for diasals only) 5.Fuel Rato: 15 The state of the s min/stroke @ peak HP THE PROPERTY OF THE PARTY OF TH 58,00@2400 58.00@2400 (for diesel only) 4.Fuel Rate: 4045DKV50 1 4045D 6 8 81:13 @ 2400' 3 3.BHP@HPM Kw\SAE Gross) 60 X 81.13 @ 2400 100 The state of the s 2. Engine Model(1) THE RESERVE THE PARTY OF THE PA The state of the s THE PARTY OF THE P 4045D LEngine Code 4045DKV51