

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0156 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 ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2003	3JDXL02.9023	2.9	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
	Direct Diesel Injec	ction	Tractor, 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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
CLASS			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	_	12.5	-	_	-	-	-	_
		CERT	-	8.8	-	-	-	7	10	11

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 January 2003.

Allen Lyons, Chief

Mobile Source Operations Division

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Engine Model Sum

ry Form

Manufacturer: Deere Power Systems Group of Deere and

Attachment

Engine category: Nonroad CI

EPA Engine Family 3JDXL02.9023

Mfr Family Name: 320DB

Process Code: New Submission

9.15-004-013%

	005200			3029DLV52 3029D	1.Engine Code 2.Engine Model	
	52.97@2400	004287675	E0 07 @ 2400	59.00@2500	(SAE Gross)	3 RHD@ BDM
	48.50@2400	48.50@2400	50.50@2300	50.80@2500	(for diesel only)	4.Fuel Rate:
	17.64@2400	17.64@2400	19.84@2300	19.84@2500	(lor diesels only)	5.Fuel Rate:
	138.64@1400	138.64@1400	142.33@1400	142.33@1600	6.Torque @ RPM (SEA Gross)	
	57.6@1400	57.6@1400	63.9@1400	58.1@1600		7.Fuel Rate:
	13.89@1400	13.89@1400	14.77@1400	15.43@1600	8.Fuel Rate: (lbs/hr)@peak torque	
	•	EM	EZ.	EM Dot	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	

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