

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	2JDXL02.9023	2.9	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			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 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	N/A	12.5	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	-	8.8	-	-	-	7	10	11

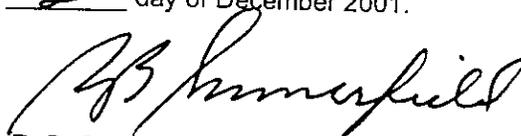
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any 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 27th day of December 2001.



R. B. Summerfield, Chief
 Mobile Source Operations Division

Engine Model S ary Form

Manufacturer: Deere Power Systems Group of Deere and
 Engine category: Nonroad CI
 EPA Engine Family: 2JDXL02.9023
 Mfr Family Name: 320DB
 Process Code: New Submission

ED# U-K-4-125

ATTACHMENT 1861

1. Engine Code	2. Engine Model (KW)	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak IIP (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
3029DF180D	3029D	44 @ 59.00 @ 2500	50.80 @ 2500	19.84 @ 2500	142.33 @ 1600	58.1 @ 1600	15.43 @ 1600	EM
3029DLV52	3029D	52.97 @ 2300	50.50 @ 2300	19.84 @ 2300	142.33 @ 1400	63.9 @ 1400	14.77 @ 1400	EM
3029DKV54	3029D	52.97 @ 2400	48.50 @ 2400	17.64 @ 2400	138.64 @ 1400	57.6 @ 1400	13.89 @ 1400	EM
3029DKV55	3029D	52.97 @ 2400	48.50 @ 2400	17.64 @ 2400	138.64 @ 1400	57.6 @ 1400	13.89 @ 1400	EM
3029DLV53	3029D	52.97 @ 2400	51.00 @ 2400	19.84 @ 2400	141.59 @ 1200	62 @ 1200	12.10 @ 1200	EM

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