

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0166-1 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. YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2004	4JDXL02.9050	2.9	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Smo	ke Puff Limiter, Direct I Turbocharger		Compressor, Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), 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-hr)					OPACITY (%)		
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	-	-	6.5	1.4	0.34	11	5	29

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.

This Executive Order hereby supersedes Executive Order U-R-004-0166 dated December 23, 2003.

Executed at El Monte, California on this 874 day of January 2004.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer:

Deere Power Systems Group of Deere and

Engine category:

Nonroad CI

4JDXL02.9050 EPA Engine Family:

Mfr Family Name:

320TB

ess Code:

New Submission

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4.Fuel Rate:

5.Fuel Rate:

6.Torque @ RPM (SEA Gross)

7.Fuel Rate: mm/stroke@peak torque

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

2.Engine Model KW (SAE Gross) mm/stroke @ peak HP (for diesel only) (lbs/hr) @ peak HP (for diesels only) 1.Engine Code 3029TF270A 3029T 52 71.08@2500 71.00@2500 29.99@2500

81@1600 21.83@1600 EM 061, S/L TC 182.90@1600

Engine Model Summary Form

Manufacturer:

Deere Power Systems Group of Deere and

Engine category:

Nonroad Cl EPA Engine Family: 4JDXL02.9050

Mfr Family Name: 320TB

cess Code:

Running Change

Attachment 2 8 2

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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	
3029TF270A								EM SPL 0 Tc *	
✓ 3029TF270B	3029T	71.08@2500	71.70@2500	30.27@2500	181.42@1700	80.7@1700	23.18@1700	EM SPL 0	
3029TF270D	3029T	64.37@1800	82,10@1800	24.92@1800				EM SPL 0	
_3029TF270C	3029T	64.37@2500	67.10@2500	28.31@2500	167.41@1500	73.6@1500	18.63@1500	EM SPL 0	
T									