

JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0447 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)		
2012	CJDXL02.9050	2.9	Diesel	5000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Smoke Puff Limiter			Tractor, Pump, Compressor, Generator Set, Other Industria 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 (%)		
			NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 <u><</u> kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		FEL			6.8					
		CERT			6.4	2.0	0.26	4	1	10

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 2011.

Annette Hebert, Chief

Mobile Source Operations Division

12-1-11

Engine Model Summary Form

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Manufacturer:

John Deere Power Systems

Engine category: EPA Engine Family:

Nonroad Ci CJDXL02.9050 320TB

Mfr Family Name: Process Code:

Correction

1. Engine code 3029TPY25	2. Engine Model 3029T	3. kW@RPM (SAE Gross) 35.5@2400	4. Fuel Rate: mm/stroke@peak kW (for diesel only) 47.4@2400	5. Fuel Rate: (kg/hr)@peak kW (for diesels only) 8.7@2400	6. Torque (Nm) @RPM (SEA Gross) 170@1600	7. Fuel Rate: mm/stroke@peak torque 55.3@1600	8. Fuel Rate: (kg/hr)@peak torque 6.8@1600	9. Emission Control Device Per SAE J1930 EM DFI TC SPL
3029TPY30	3029T	35.5@2300	48.4@2300	8.5@2300	170@1600	55@1600	6.7@1600	EM DFI TC SPL
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