

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	CJDXL02.9088	2.9	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Direct Diesel Injection, To	urbocharger	Tractor and Other Indus	trial 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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS			NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Interim Tier 4	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		FEL			6.8		0.40			
		CERT			6.5	1.6	0.31	8	2	25

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

Engine Model Summary Form

Manufacturer:

John Deere Power Systems

Engine category: EPA Engine Family:

Nonroad CI

CJDXL02.9088 320TC

Mfr Family Name: Process Code:

Running Change

R/C Date: 2/16/2012 E0#: U-R-004-0457

			4. Fuel Rate:	5. Fuel Rate:	6. Torque (Nm)	7. Fuel Rate:		9. Emission Conf
		3. kW@RPM	mm/stroke@peak kW	(kg/hr)@peak kW	@RPM	mm/stroke@peak	8. Fuel Rate:	Device Per
1. Engine code	2. Engine Model	(SAE Gross)	(for diesel only)	(for diesels only)	(SEA Gross)	torque	(kW/hr)@peak torque	SAE J1930
3029TPY50	3029T	42.0@2400	55.8@2400	10.24@2400	209@1500	65.5@1500		EM DFITC
3029TPY49 3029TPY22	3029T	48.0@2400	64.5@2400	11.84@2400	236@1600	75.4@1600	9.23@1600	EM DFITC
3029TPY21	3029T	48.0@2400	64.5@2400	11.84@2400	236@1600	75.4@1600	9.23@1600	EM DELTC
3029TPY48	3029T 3029T	42.0@2400 55.0 @2400	55.8@2400 72.2@240 0	10.24@2400 13.26@2400	209@1500 268@1600	65.5@1500 84.1@1600	7.52@1500 10.29@1600	EM DFITC
3029TPY24	3029T	55.0@2400	72.2@2400	13.26@2400	268@1600	84.1@1600	10.29@1600	EM DFITC
3029TPY29	3029T	42.0@2300	57.1@2300	10.05@2300	220@1600	70.6@1600	8.64@1600	EM DFITC
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