JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0437 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)		
2011	BJDXL02.9139	2.9	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Mechanica	l Diesel Injection, Turbo Limiter	Charger, Smoke Puff	Generator Set			

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 (%)		
			нс	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		FEL			7.5		0.40			
		CERT			6.3	1.4	0.35	9	5	22

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 2010.

Annette Hebert, Chief

Mobile Source Operations Division

Attachment: page of E0#: U-R-004-0437

Dete: 12/7/2010

Engine Model Summary Form

Process Code:

Engine category EPA Engine Family: BJDXL02.9139 Mfr Family Name:

Nonroad Cl 320TE

			4. Fuel Rate:	5. Fuel Rate:		7. Fuel Rate:		9. Emission Control
4 Fasina anda	O Facino Madal	3. kW@RPM (SAE Gross) 53@2500	mm/stroke@peak kW	(lbs/hr)@peak kW	6. Torque @ RPM	mm/stroke@peak	8, Fuel Rate:	Device Per
1. Engine code 3029TF270A	2. Engine Model 3029T	(SAE GIOSS)	(for diesel only) 71@2500	(for diesels only) 13.58@2500	(SEA Gross) 248@1600	torque 81@1600	(lbs/hr)@peak torque 423.53@1600	SAE J1930 SPL EM TC DFI
3029TF270D	3029T	48@1800	82.1@1800	11,31@1800	2408 1000		420.00@1000	SPL EM TC DFI
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