## **JOHN DEERE POWER SYSTEMS**

EXECUTIVE ORDER U-R-004-0398 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 DISPLACEME (liters)			FUEL TYPE	USEFUL LIFE (hours)		
2010	AJDXL03.0206	2.4	Diesel	8000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLIC			
Mechanical Diesel Injection, Turbocharger, Smoke Puff Limter		Tractor, Pump, Compressor and Other 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 (%)		
			НС	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		FEL			7.5					
		CERT			7.3	1.4	0.26	3	2	4

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 2009.

Annette Hebert, Chief Mobile Source Operations Division Date: 12/17/2009

**Engine Model Summary Form** 

John Deere Power Systems

Engine category: Nonroad CI EPA Engine Family: AJDXL03.0206

Mfr Family Name: 250TD

Process Code: **New Submission**  F0#: 4-R-004\_0398

Process Code:	New Submission								
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 Pevice Per SAE J1930	ю.
4024TPRNT1	4024T	61.69@2400	44.90@2400	24.26@2400	174.78@1440	56.5@1440	18.30@1440	EM SPL DFI	
4024TF270G	4024T	61.02@2800	41.00@2800	25.80@2800	154.13@1680	49.6@1680	18.74@1680	EM SPL DFI	$\dashv$
4024TF270I	4024T	56.33@2400	39.80@2400	21.50@2400	160.77@1440	50.9@1440	16.50@1440	EM SPL DFI	$\neg$
4024TT001	4024T	61.02@2800	41.00@2800	25.80@2800	154.13@1680	49.6@1680	18.74@1680	EM SPL DFI	$\dashv$
402411001	40241	01.02@2000	41.00@2000	25.00@2000	104.10@1000	48.0@1000	10.74@1000	EWI SPL DFI	$\dashv$
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