California Environmental Protection Agency	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0161 New Off-Road Compression-Ignition Engines
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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 ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2003	3JDXL03.0064	2.4, 3.0	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION				
Direct Diesel Injection, Turbocharger, Smoke Puff Limiter, Charge Air Cooler			Loader, Tractor, Pump, 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		EXHAUST (g/kW-hr)				OPACITY (%)			
	CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
37 <u><</u> kW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		FEL	-	7.2	-	-	-	-	-	-
		CERT	-	6.0	-		-	12	3	21

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 or after December 31, 2003 are not covered by this Executive Order.

Executed at El Monte, California on this

day of March 2004.

Allen Mons, Chief Mobile Source Operations Division

Engine Model Sumn y Form

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u-r-oou-ol61 A-stachment 1 of

Manufacturer: Deere Power Systems Group of Deere and Engine category: Nonroad CI

EPAEngine Family: 3JDXL03.0064

Mfr Family Name: 250HA

Process Code: New Submission

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 7.Fuel Rate: mm/stroke@peak torque 6.Torque @ RPM (SEA Gross) 4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (Ibs/hr) @ peak HP (for diesel only) (for diesels only) 3.8HP@RPM (SAE Gross) 2.Engine Model 1.Engine Code

TC, CAC, FSM