California Environmental Protection Agency AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0163-1 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)
2004	4JDXL03.0063	2.4, 3.0	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Smoke Puff Limiter, Direct Diesel Injection, Turbocharger, Exhaust Gas Recirrulation	Compressor, Harvester, Trencher, Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD), 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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	-	-	6.9	1.9	0.34	5	6	7

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.

This Executive Order hereby supersedes Executive Order U-R-004-0163 dated December 23, 2003.

Executed at El Monte, California on this 30TH day of March 2005.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

Attachment 1 of 3
U-A-004-0163-1

Manufacturer: Deere Power Systems Group of Deere and
Engine category: Nonroad CI
EPA Engine Family: 4JDXL03.0063
Mfr Family Name: 250TA
ass 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 Device Per SAE J1930
5030TF270B	5030T	82.48 @ 2800	45.90 @ 2800	36.16 @ 2800	207.97 @ 1680	55.3 @ 1680	26.24 @ 1680	EM SPL
4024TF270A	4024T	61.02 @ 2800	41.70 @ 2800	26.46 @ 2800	154.87 @ 1680	50.1 @ 1680	18.96 @ 1680	EM SPL
4024TF270C	4024T	48.26 @ 2800	34.50 @ 2800	21.83 @ 2800	130.54 @ 1680	43.1 @ 1680	16.32 @ 1680	EM SPL
5030TF270A	5030T	75.10 @ 2800	41.70 @ 2800	32.85 @ 2800	189.53 @ 1680	50.7 @ 1680	24.03 @ 1680	EM SPL
4024TF270B	4024T	65.72 @ 2800	45.90 @ 2800	28.99 @ 2800	167.41 @ 1680	55.1 @ 1680	20.95 @ 1680	EM SPL

Engine Model Summary Form

Manufacturer: Deere Power Systems Group of Deere and
Engine category: Nonroad CI
EPA Engine Family: 4JDXL03.0063
Mfr Family Name: 250TA
F ; Code: Running Change

Attachment 2 of 3
U-R-004-0163-1

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 Device Per SAE J1930
4024TT001	4024T	61.02@2800	41.70@2800	26.46@2800	154.87@1680	50.1@1680	18.96@1680	EM EGR
4024TT002	4024T	65.72@2800	45.90@2800	28.89@2800	167.41@1680	55.1@1680	20.95@1680	EM EGR
5030TT001	5030T	76.71@2800	42.60@2800	33.54@2800	188.21@1680	49.9@1680	23.59@1680	EM EGR
5030TT002	5030T	82.48@2800	45.90@2800	36.16@2800	207.97@1680	55.3@1680	26.24@1680	EM EGR

DDI, SPL

Engine Model Summary Form

Manufacturer: **Deere Power Systems Group of Deere and**

Engine category: **Nonroad CI**

EPA Engine Family: **4JDXL03.0063**

M[illegible] Family Name: **250TA**

[illegible]s Code: **Running Change**

Attachment 3 of
U-R-004-0163-

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 Device Per SAE J1930
5030TLV02	5030T	67.06@2400	41.00@2400	27.56@2400	199.86@1440	52.3@1440	21.17@1440	EM EGR, TC, DI,
5030TLV01	5030T	54.99@2400	35.10@2400	23.59@2400	171.10@1440	44@1440	17.86@1440	EM EGR