

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0100 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-45-9;

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)				
2002	2JDXL04.5040	4.5	Diesel	8000				
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Electro	nic Control Module, Dire Turbocharger, Charge	ct Diesel Injection, Air Cooler	Crane, Loader, Dozer, Pump, Tractor, Compressor, Generate					

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-l	OPACITY (%)				
			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37< KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		FEL	N/A	7.3	N/A	N/A	0.36	N/A	N/A	N/A
		CERT	-	6.0	-	-	0.32	7	5	14

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.

Replace Sussowity

Executed at El Monte, California on this ______ day of December 2001.

AR. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Summary Form

Deere Power Systems Group of Deere & Company

New Submission

Process Coda:

EPA Engine Farry: 2JDXL84,5040

Mr Family Name: 3595/E

Normond CI

Engine category:

Manufacturer:

11-16-4-10D

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6.5 tral Rate: 9.Emission Convol (Bsdir) Grass torque Dovice Per SAE J1930	PROPERTY CAN BENEFIC CAN BENEFIC CAN							
6,5 trol Rate: (fbs/hr) & postk torque	27.01.100 ID							
7.Fuol fiate: mn/stroko@peek torque	85.3@1400							
6.Yeique @ RPM (SFA Gross)	.1957/47140 276@1400							
5.Fuel flate: (lbs/hr) @ poet-fil? (for dissels only)	36@2400 36@2400		W. d.					
C.Eucl Bato: amasuato & paak HP (for desel only)	73.4@2200 72.4@2200		11119 147 101 17 (17 VIII) 18 VIII 18					
3.BHP@44PE (SAE Gross)	700451 F275B 7045HP050 4045H							
2.Engine Model	4045H							
1,Engine Code	A045HP050							