

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0181 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	4JDXL04:5042	4.5	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Smoke Puff Limiter, Electronic Control Module			Crane, Loader, Tractor, Dozer, Pump, Generator Set, Compressor, 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	EMISSION STANDARD		EXHAUST (g/kW-hr)					OPACITY (%)		
CLASS	CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u><</u> kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		FEL	-	-		-	0.36	-	_	-
		CERT	-	-	5.7	1.1	0.32	7	3	18

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 2003.

Allen Jons, Chief Mobile Source Operations Division Engine Woder Summary Form

Engine category: Nonroad CI EPA Engine Family: 4JDXL04.5042

Mfr Family Name: 350TD

Manufacturer:

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ess Code: New Submission

Deere Power Systems Group of Deere &

Affachment 181 U-R-004-0181

1.Engine Code	2.Engine Model KW		4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesals only)	6.Torque ֎ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (ไวร/hr) & peak torque	9.Emission Control Device Per SAE J1930
24045 [E275A+	and the state of t	99.24@2500	75.00@2500	34.00@2500%	296.98@1500	99.8@1500 ×	41/89@1500	EMIEGONO
4045TRT70	TOTAL TOTAL CONTRACT CONTRACTOR	80.47@2350	54.20@2350 //	32.63@2350;	250.59@1400	85@1400	25.80@1400	EMEC
#4045TRT#(6. £4045T340	90.52@2350	69:60@2350)	35.28 @2 350∧8	1277.00@1400	93.5@1400	28:22@1400#	SOLEMECA AND L
4045TRT72A	4045T.	99.24@2200	79.00@2200°	% 37.70 @ 2200 %	288.06@1500	95 @ 1500	31.09@1500	STEMEC STATE
4045THT7356	40451	90.52@2200	71.00@2200	\$35.28@2200°s	2276.55@;1400		28.00@1400	E FIZE CARE
40451H174	4045T\-;;;	99.24@2350	71.50@2350	₹37.79@2350		- 391.5@1500	30'89@1500	EMEC S
_4045TL272*€2	12/4045L	92,54@2300	₹17130@2×00	35 50@2300	28172@1500			CATELLE CHARACTER
4045TL271	** 4045T * * *	84,49@2300	% 64.90@2300	32:41@2300	257.38@1500		27,34@1500	FILECOSO
4045 (1270.5)	2 4045Ty × 58	77:78@2300 <i>2</i>	\$\$2.59,50. @ 2300	£ 29.55@2300 /s	€238 94@1500 A			SER ES ES
/4045TT092***	~	84.49@2200	🌣 65.60@2200 💥	°32.46@2200	261.80@1400	85 3 @ 1400	The state of the s	EM EC
	arusarta t				A 27 18074 C	20 2 00 - 1200	2:3:	