

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)
2002	2JDXL04.5042	4.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Electronic Control Module, Turbocharger			Dozer, Loaders, Tractor	

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 (%)		
			HC	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	-	7.3	-	-	0.36	-	-	-
		CERT	-	5.2	-	-	0.31	5	3	11

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.

This Executive Order hereby supersedes Executive Order U-R-004-0102 dated December 28, 2001.

Executed at El Monte, California on this 29th day of August 2002.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: Deere Power Systems Group of Deere &
Engine category: Nonroad CI
EPA Engine Family: 2JDXL04.5042
Mr Family Name: 350TD
Process Code: New Submission

ED# U-R-004-102-1
 Attachment 1 of 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
4045TF275A	4045T	99.24@2500	75.00@2500	33.99@2500	296.98@1500	99.8@1500	41.89@1500	EM TC, ECM, DDI
4045TT084	4045T	75.10@2200	58.60@2200	28.88@2200	233.04@1400	74@1400	23.37@1400	EM TC
4045TT085	4045T	80.46@2200	62.70@2200	31.08@2200	249.26@1400	79.7@1400	25.13@1400	EM TC
4045TT086	4045T	84.48@2200	64.80@2200	31.97@2200	261.80@1400	84.2@1400	26.46@1400	EM TC
4045TT087	4045T	88.51@2200	67.90@2200	33.62@2200	275.81@1400	89.4@1400	28.13@1400	EM TC
4045TT088	4045T	84.48@2200	64.80@2200	31.97@2200	261.80@1400	84.2@1400	26.46@1400	EM TC
4045TT089	4045T	92.53@2200	68.50@2200	35.49@2200	287.61@1400	94.2@1400	29.65@1400	EM TC
4045TRT70	4045T	80.46@2350	54.20@2350	32.63@2350	250.59@1400	85@1400	25.79@1400	EM TC
4045TRT71	4045T	90.52@2350	69.60@2350	35.27@2350	276.99@1400	93.5@1400	28.22@1400	EM TC
4045TRT72	4045T	100.31@2200	79.80@2200	38.14@2200	288.05@1500	95@1500	31.08@1500	EM TC