



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 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	
Electronic Control Module, Direct Diesel Injection, Turbocharger			Crane, Loader, Dozer, Pump, Tractor, Compressor, Generator	

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	N/A	7.3	N/A	N/A	0.36	N/A	N/A	N/A
		CERT	-	5.2	-	-	0.31	4	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.**

Executed at El Monte, California on this 28<sup>th</sup> day of December 2001.

  
for R. B. Summerfield, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

Manufacturer: **Deere Power Systems Group of Deere & Company**

Engine Category: **Nonroad CI**

EPA Engine Family: **2JDXL04.5042**

Model Name: **350TD**

Process Code: **New Submission**

Attachment

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (for diesel only)	5. Fuel Rate: (lb/hr) @ peak HP (for diesel only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm <sup>3</sup> /stroke @ peak torque	8. Fuel Rate: (lb/hr) @ peak torque	9. Emission Control Device Per SAE J1930
4045T084	4045T	99 @ 2500	75 @ 2500	34 @ 2500	297 @ 1500	59.9 @ 1500	42 @ 1500	EM, TC
4045T085	4045T	75 @ 2200	58.6 @ 2200	29 @ 2200	233 @ 1400	74 @ 1400	23 @ 1400	EM, TC
4045T086	4045T	80 @ 2200	62.7 @ 2200	31 @ 2200	249 @ 1400	70.7 @ 1400	25 @ 1400	EM, TC
4045T087	4045T	84 @ 2200	64.8 @ 2200	32 @ 2200	262 @ 1400	84.2 @ 1400	26 @ 1400	EM, TC
4045T088	4045T	89 @ 2200	67.9 @ 2200	34 @ 2200	276 @ 1400	89.1 @ 1400	28 @ 1400	EM, TC
4045T089	4045T	84 @ 2200	64.8 @ 2200	32 @ 2200	262 @ 1400	84.2 @ 1400	26 @ 1400	EM, TC
		93 @ 2300	66.5 @ 2300	35 @ 2300	280 @ 1400	91.2 @ 1400	30 @ 1400	EM, TC