



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	2JDXL08.1009	8.1	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Control Module, Direct Diesel Injection, Turbocharger, Smoke Puff Limiter			Tractor, Generator Set	

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
75 ≤ KW < 130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
130 ≤ KW < 225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.8	8.3	--	2.1	0.27	12	11	17

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 27th day of December 2001.


R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model SAE Test Form

U-R-4-114

Manufacturer: Deere Power Systems Group of Deere and
 Engine category: Nonroad CI
 EPA Engine Family: 2JDXL08.1009
 Mfr Family Name: 450TA
 Process Code: New Submission

Attachment

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
6081TF001A	6081T	217.25@2200	109.00@2200	79.37@2200	677.73@1200	147@1200	59.52@1200	EM TC
6081TF001F	6081T	199.81@2200	98.00@2200	72.75@2200	632.74@1400	122@1400	57.32@1400	EM TC
6081TDW01	6081T	171.65@2200	88.00@2200	63.93@2200	573.01@1400	116@1400	52.91@1400	EM TC
6081TF001D	6081T	171.65@2200	88.00@2200	63.93@2200	573.01@1400	116@1400	52.91@1400	EM TC
6081TF001C	6081T	210.54@1800	127.00@1800	74.96@1800				EM TC
6081TRW12A	6081T	166.29@2100	86.80@2100	59.52@2100	603.24@1400	120.6@1400	56.88@1400	EM TC
6081TRW12B	6081T	181.04@2100	94.00@2100	66.14@2100	656.34@1400	132.7@1400	62.61@1400	EM TC
6081TRW12C	6081T	182.38@2100	96.70@2100	59.52@2100	603.24@1400	123.8@1400	56.88@1400	EM TC
6081TRW12D	6081T	199.81@2100	104.90@2100	66.14@2100	656.34@1400	135.7@1400	62.61@1400	EM TC
6081TRW09	6081T	166.29@2100	86.00@2100	59.52@2100	603.24@1300	121.4@1300	52.91@1300	EM TC
6081TRW10	6081T	181.04@2100	91.60@2100	63.93@2100	656.34@1300	132.7@1300	57.32@1300	EM TC
6081TF001E	6081T	260.16@1800	152.80@1800	92.59@1800				EM TC

Oppy EAM part