

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)
2003	3JDXL02.9018	2.9	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger			Pump, Industrial Equipment	

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
37 ≤ kW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT	-	7.7	-	-	-	10	4	22

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 2nd day of January 2003.

Raphael Sussowitz
 for Allen Lyons, Chief
 Mobile Source Operations Division

Attachment 1 of 3 Engine Model Summary Form

U-R-004-0157

Manufacturer: Deere Power Systems Group of Deere and
 Engine category: Nonroad CI
 EPA Engine Family: 3JDXL02.9018
 Mr Family Name: 320TA
 Process Code: New Submission

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 (SAE Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
3029TF180A	3029T	84.48@2500	81.00@2500	33.07@2500	218.29@1600	93@1600	24.25@1600	EM TC DDE
3029TKV50	3029T	64.37@2400	64.00@2400	24.25@2400	176.25@1500	74@1500	18.30@1500	EM TC
3029TKV51	3029T	64.37@2400	64.00@2400	24.25@2400	176.25@1500	74@1500	18.30@1500	EM TC
3029TKV52	3029T	72.42@2400	70.70@2400	26.46@2400	191.74@1400	81.8@1400	20.06@1400	EM TC
3029TKV53	3029T	72.42@2400	70.70@2400	26.46@2400	191.74@1400	81.8@1400	20.06@1400	EM TC
3029TFG51	3029T	69.73@2500	68.00@2500	22.05@2500	184.00@1600	78.7@1600	20.61@1600	EM TC
3029TLV52	3029T	64.37@2400	64.00@2400	24.25@2400	176.25@1500	74@1500	18.30@1500	EM TC
3029TF150D	3029T	64.37@1800	77.50@1800	22.05@1800				EM TC
3029TAT50	3029T	71.07@2300	71.70@2300	26.46@2300	195.43@1500	88.2@1500	20.28@1500	EM TC
3029TFG50	3029T	71.07@2300	71.70@2300	26.46@2300	195.43@1500	88.2@1500	20.28@1500	EM TC
3029TF150B	3029T	69.73@2500	68.00@2500	26.46@2500	184.00@1600	78.7@1600	17.86@1600	EM TC
3029TF180C	3029T	69.73@2500	68.00@2500	26.46@2500	184.00@1600	78.7@1600	17.86@1600	EM TC
3029TF152	3029T	79.12@2500	74.80@2500	30.86@2500	202.80@1500	88.3@1500	21.83@1500	EM TC
3029TF150C	3029T	79.12@2500	76.00@2500	30.86@2500	202.80@1500	90.7@1500	22.05@1500	EM TC
3029TF180D	3029T	79.12@2500	76.00@2500	30.86@2500	202.80@1500	90.7@1500	22.05@1500	EM TC

EAH11-R-004-0157

Manufacturer: Deere Power Systems Group of Deere and

Engine category: Nonroad CI

EPA Engine Family: 3JDXL02.9018

Mfr Family Name: 320TA

Process Code: Running Change

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
3029TF270B	3029T	71.07 @ 2500	68.90 @ 2500	29.10 @ 2500	180.68 @ 1600	79.4 @ 1600	21.43 @ 1600	EM TC
3029TF270C	3029T	64.37 @ 2500	63.40 @ 2500	26.74 @ 2500	165.93 @ 1500	74 @ 1500	18.72 @ 1500	EM TC
3029TF270D	3029T	64.37 @ 1800	82.10 @ 1800	24.91 @ 1800				EM

* added

Attachment 2 of 3 Engine Model Summary Form

EB114-R-004-057 R/K

Manufacturer: Deere Power Systems Group of Deere and
Engine category: Nonroad CI
EPA Engine Family: 3JDXL02.9018
Mr Family Name: 320TA
Process Code: Running Change

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesels 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
3029TPY02	3029T	64.37 @ 2400	64.00 @ 2400	24.25 @ 2400	176.25 @ 1500	74 @ 1500	18.30 @ 1500	EM TC P01

3029TPY02