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-14-012:

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)			
2016	GJDXL04.5304	4.5	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Electronic Turbocharg	c Control Module, Electroner, Oxidation Catalyst, I	onic Direct Injection, Periodic Trap Oxidizer	Loaders, Tractor, Dozer, Pump, Compressor, Generator Se Other 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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
CLASS			NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
	-	FEL			-		0.01			
		CERT			4.4	0.1	0.001			

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

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Annelle nebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

day of October 2015.

9-25-15

Attachment: Page (of)

(1-R-004-0509

Engine Model Summary Form

Manufacturer; Engine category: Nonroad CI EPA Engine Family: Mfr Family Name:

John Deere Pow

GJDXL04.5304 350TCA New Submission

Process Code: 4. Fuel Rate: 5. Fuel Rate: 7. Fuel Rate: 9. Emission Control 8. Fuel Rate: 3. KW@RPM mm/stroke@peak kW (kg/hr)@peak kW @RPM mm/stroke@peak Device Per (kW/hr)@peak torque 11.8@1550 1. Engine code 4045TFC03A 4045TFC03B (SAE Gross) (for diesel only) SAE J1930 2. Engine Mode torque ECEMPTOX OCTO DFI ECM
ECEMPTOX OCTO DFI ECM
ECEMPTOX OCTO DFI ECM
ECEMPTOX OCTO DFI ECM 15.5@2400 74.9@1550 55@2400 63.202400 304@1550 4045 67.3@2200 15.1@2200 304@1550 311@1600 74.8@1550 75.2@1600 55@2200 55@1800 11.8@1550 4045TFG03A 4045 72.8@1800 13.4@1800 12.3@1600 4045TPRNT3 4045 55@2400 60.2@2400 14.7@2400