California Environmental Protection Agency

OB Air Resources Board

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	GJDXL04.5315	4.5	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIRMENT A	
Electronic Control Module, Exhaust Gas Recirculation, Selective Catalytic Reduction-Urea, Electronic Direct Injection, Turbocharger, Charge Air Cooler, Oxidation Catalyst, Ammonia Oxidation Catalyst		Loaders, Tractor, Dozer, Pump, Compressor, Generator So 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 CLASS	EMISSION STANDARD CATEGORY			EXHAUST (g/kw-hr)			OPACITY (%)			
			NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.02	0.33		0.1	0.02			

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

___ day of February 2016.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

- 13-2016

E0#: 4-R-004-0523

age lof 1	9. Emission Control	EGR OC SCRC NH3OC DFI TC CAC ECM	
(3	o Find Date:	8 tuel rkare. (KW/m)@peak torque 20.1@1600 E	
+ H celiment:	7. Fuel Rate:	mmustoxegreak torque 123.1@1600	
	6. Torque (Nm)	@KPM (SEA Gross) 577@1600	
	5. Fuel Rate:	(kg/n/)@peak kv/ (for diesels only) 24.4@2400	
Engine Model Summary Form	4. Fuel Rate:	mm/stroke@peak kw (for diesel only) 99.6@2400	
Engine Model		3. KW@KFM (SAE Gross) 106@2400	
John Deere Power S Nonroad Cl	GJDXL04.5315 350HCG New Submission	2. Engire Model 4045	
Manufacturer. Engine category:	EPA Engine Family: Mfr Family Name: Process Code:	1. Engine code 4045HPRNT14	