## California Environmental Protection Agency Air Resources Board

**DEUTZ AG** 

EXECUTIVE ORDER U-R-013-0448 New Off-Road 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-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)			
2013	DDZXL06.1010	6.057	Diesel	8000			
	FEATURES & EMISSION O		TYPICAL EQUIPMENT APPLICATION				
Cooler, El	Rail Direct Injection, Turb lectronic Control Module, Selective Catalytic Redu	Smoke Puff Limiter,	Tractor				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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	EMISSION				EXHAUST (g/kW-	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	/ < 130 Interim Tier 4/ ALT NO <sub>x</sub>		0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.16	2.6		0.6	0.02			

BEIT 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 January 2013.

Annette Hebert, Chief

Mobile Source Operations Division

Deutz AG Nonroad CI

**Engine Model Summary Template** 

Attachment

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EO# U-R-013-0448

Date: 1/8/2013

5.Fuel Rate:

4.Fuel Rate:

(lbs/hr) @ peak

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	HP (for diesels only)	` 6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930		
DDZXL06.1010	C4ST120U	TCD6.1L6	161.0@2100	83.5	58.4	544.9@1500	105.5	52.7	DDI, TC, CAC, ECM, SPL, S	SCR	****
DDZXL06.1010	C4ST106U	TCD6.1L6	142.2@2100	75.5	52.8	479.4@1500	96.0	47.9	DDI, TC, CAC, ECM, SPL, S	SCR	