California	Environmental	Protection	Agency
Ø≣ Ai	r Resou	rces B	oard

**DEUTZ AG** 

EXECUTIVE ORDER U-R-013-0445 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	DDZXL02.9016	2.925	Diesel	8000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION					
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst			Loader, Tractor, and Doz	Loader, Tractor, and Dozer			

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-hr)			OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		имнс	NOx	NMHC+NOx	со	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
		CERT			3.9	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 January 2013.

Annette Hebert, Chief

Mobile Source Operations Division

Deutz AG

Nonroad CI

**Engine Model Summary Template** 

Attachment page 1 of 1 5.Fuel Rate: (lbs/hr) @ peak

Date: (18/2013

EO# U-R-013-0445

4.Fuel Rate: ( mm/stroke @ peak HP (for diesel only) 57.0

(for diesels 6. Torque @ RPM IIIIIT/sucve@pe only) (SEA Gross) ak torque

191.7@1800

29.1

74.2@2300

TCD2.9L4

C4DI55C

DDZXL02.9016

3.BHP@RPM (SAE Gross)

Engine Family 1.Engine Code 2.Engine Model

59.0

8.Fuel Rate: (lbs/hr)@peak torque

9.Emission Control Device Per SAE J1930

DDI, TC, CAC, EGR, ECM, DOC

23.5