DEUTZ AG

EXECUTIVE ORDER U-R-013-0425-1

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)		
2012	CDZXL02.7096	2.332	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Mechanical Direct Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation			Loader, Compressor, and Other Industrial Equipment			

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		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Interim Tier 4	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			4.3	1.2	0.21	3	2	5

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.

This Executive Order hereby supersedes Executive Order U-R-013-0425 dated June 14, 2012.

Executed at El Monte, California on this

_ day of October 2012.

Annette Hebert, Chief

Møbile Source Operations Division

Deutz A9

Nonpad CI

Engine Model Summary Template

Attachment pape 1 st

EO# U-R-013-64-5-1

8. Fuel Rate: 9. Emission Control (bs/hr)のpeak torqueD-wire-Per SAF. 11930	17.4 DDI, TC, CAC, EGR
7.Fuel Rate: mm/stroke@peak	
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM #rr rlissel only (Fr Ross)	149@1600
5.Fuel Rate: (lbs/hr) @ peak HP	24.7
4.Fuel Rate: m/stroke @ peak HP	64.5
•	60.3@2300
3.BHP@RPM	TCD2011L03
Thaine Code	C3UI45
Fngine Family	CDZXL02.7096