

California Environmental Protection Agency <b>Air Resources Board</b>	DEUTZ AG	<b>EXECUTIVE ORDER U-R-013-0439</b> 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	CDZXL03.6037	3.621	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Common Rail Direct Injection, Turbocharger, Electronic Control Module, Exhaust Gas Recirculation, Smoke Puff Limiter			Loader 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			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	--	--	4.2	0.6	0.04	1	1	1

**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 21 day of December 2012.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

Deutz AG  
Nonroad CI

**Engine Model Summary Template**

Attachment page 1 of 1

EO # U-R-013-0439

Date: 12/17/2012

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak 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
CDZXL03.6037	C3CI55	TD3.6L4	74.2@2600	54	31.1	330@1600	76.5	27.1	DDI, TC, EGR, ECM, SPL
CDZXL03.6037	C3CI55A	TD3.6L4	74.2@2500	54.5	30.2	330@1600	76.5	27.1	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI55B	TD3.6L4	74.2@2400	55	29.3	330@1600	76.5	27.1	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI55C	TD3.6L4	74.2@2300	56.5	28.8	330@1600	76.5	27.1	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI55D	TD3.6L4	74.2@2200	58	28.3	330@1600	76.5	27.1	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI55E	TD3.6L4	74.2@2100	59.5	27.7	330@1600	76.5	27.1	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI55F	TD3.6L4	74.2@2000	62	27.5	330@1600	76.5	27.1	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI50	TD3.6L4	67@2600	50	28.8	290@1600	66.5	23.6	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI50A	TD3.6L4	67@2500	50.5	28	290@1600	66.5	23.6	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI50B	TD3.6L4	67@2400	51	27.1	290@1600	66.5	23.6	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI50C	TD3.6L4	67@2300	52	26.5	290@1600	66.5	23.6	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI50D	TD3.6L4	67@2200	53	25.9	290@1600	66.5	23.6	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI50E	TD3.6L4	67@2100	54.5	25.4	290@1600	66.5	23.6	DDI, TC, EGR, ECM
CDZXL03.6037	C3CI50F	TD3.6L4	67@2000	56.5	25.1	290@1600	66.5	23.6	DDI, TC, EGR, ECM