California	Environmental	Protection	Agency
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DEUTZ AG

EXECUTIVE ORDER U-R-013-0439 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		
	FEATURES & EMISSION		TYPICAL EQUIPMENT APP			
Common Rail Direct Injection, Turbocharger, Electronic Control Module, Exhaust Gas Recirculation, Smoke Puff Limiter			Loader and Doze	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	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			4.2	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

_ day of December 2012.

Annette Hebert, Chief

Mobile Source Operations Division

Doutz AG Nonroad CI

Engine Model Summary Template

5. Fuel Rate:

Attachment

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/ 1	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	(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	
500	54	31.1	330@1600	76.5	27.1	DDI, TC, EGR, ECM / SP 2	
500	54.5	30.2	330@1600	76.5	27.1	DDI, TC, EGR, ECM	
400	55	29.3	330@1600	76.5	27.1	DDI, TC, EGR, ECM	
			PARTY PROPERTY OF THE OWNER, NAME AND ADDRESS OF THE OWNER, NA				

3.BHP@RPM **Engine Family** 1.Engine Code 2.Engine Model (SAE Gross) CDZXL03.6037 C3CI55 TD3.6L4 74.2@260 CDZXL03.6037 C3CI55A TD3.6L4 74.2@250 CDZXL03.6037 C3CI55B TD3.6L4 74.2@240 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 59.5 27.7 330@1600 76.5 27.1 DDI, TC, EGR, ECM 74.2@2100 CDZXL03.6037 C3CI55F TD3.6L4 74.2@2000 62 27.5 330@1600 76.5 27.1 DDI, TC, EGR, ECM C3CI50 TD3.6L4 50 66.5 23.6 DDI, TC, EGR, ECM CDZXL03.6037 67@2600 28.8 290@1600 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 51 27.1 290@1600 66.5 23.6 DDI, TC, EGR, ECM 67@2400 52 66.5 DDI, TC, EGR, ECM CDZXL03.6037 C3CI50C TD3.6L4 67@2300 26.5 290@1600 23.6 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