California Environmental Protection Agency Air Resources Board

DEUTZ AG

EXECUTIVE ORDER U-R-013-0455 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	DDZXL07.8002	7.755	Diesel	8000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Common F Cooler, E	Rail Direct Injection, Turb lectronic Control Module Reduction-Ure	, Selective Catalytic	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 POWER CLASS	EMISSION STANDARD			EX	HAUST (g/kw-hi	OPACITY (%)				
	CATEGORY		NMHC ·	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Interim Tier 4 / ALT NO _x	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.06	1.4		0.4	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 March 2013.

Annette Hebert, Chief

Møbile Source Operations Division

Deutz AG Nonroad CI

Engine Model Summary Template

5.Fuel Rate:

Attachment

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EO# U-R-013-0455 Date: 2/27/2013

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	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		
DDZXL07.8002	C4ST183U	TCD7.8L6	245.4@2200	126.5	92.7	1046@1500	144.6	72.2	DDI, TC, CAC, ECM, :	, SCR	
DDZXL07.8002	C4ST194U	TCD7.8L6	260.2@2200	133	97.5	1116@1500	160.8	80.3	DDI, TC, CAC, ECM,	, SCR	
DDZXL07.8002	C4ST217U	TCD7.8L6	291.0@2200	144.5	105.9	1234@1500	176	87.9	DDI, TC, CAC, ECM,	., SCR	
DDZXL07.8002	C4ST238U	TCD7.8L6	319.2@2200	158	115.8	1326@1500	185.4	92.6	DDI, TC, CAC, ECM,	., SCR	
DDZXL07.8002	C4ST261U	TCD7.8L6	350.0@2200	174	127.5	1449@1500	201	100.4	DDI, TC, CAC, ECM,	_, SCR	
DDZXI 07.8002	C4ST276U	TCD7.8L6	370.1@2200	182	133.4	1449@1500	201	100.4	DDI. TC. CAC. ECM	L SCR	