



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	CDZXL07.8002	7.755	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Selective Catalytic Reduction-Urea			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 (NO<sub>x</sub>), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO<sub>x</sub>), 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	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Interim Tier 4 / ALT NO <sub>x</sub>	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 27 day of July 2012.

  
Annette Hebert, Chief  
Mobile Source Operations Division

Deutz AG  
Nonroad CI

**Engine Model Summary Template**

Attachment page 1 of 1

EO# U-R-013-0404

7/19/2012

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:	5.Fuel Rate:	6.Torque @ RPM (SEA Gross)	7.Fuel Rate:	8.Fuel Rate:	9.Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)		mm/stroke@pe ak torque	(lbs/hr)@peak torque	
CDZXL07.8002	C4ST183U	TCD7.8L6	245.4@2200	126.5	92.7	1046@1500	144.6	72.2	DDI, TC, CAC, ECM, SPL, SCR
CDZXL07.8002	C4ST194U	TCD7.8L6	260.2@2200	133	97.5	1116@1500	160.8	80.3	DDI, TC, CAC, ECM, SPL, SCR
CDZXL07.8002	C4ST217U	TCD7.8L6	291.0@2200	144.5	105.9	1234@1500	176	87.9	DDI, TC, CAC, ECM, SPL, SCR
CDZXL07.8002	C4ST238U	TCD7.8L6	319.2@2200	158	115.8	1326@1500	185.4	92.6	DDI, TC, CAC, ECM, SPL, SCR
CDZXL07.8002	C4ST261U	TCD7.8L6	350.0@2200	174	127.5	1449@1500	201	100.4	DDI, TC, CAC, ECM, SPL, SCR
CDZXL07.8002	C4ST276U	TCD7.8L6	370.1@2200	182	133.4	1449@1500	201	100.4	DDI, TC, CAC, ECM, SPL, SCR