California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0433 New Off-Road Compression-Ignition Engines	
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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	CDZXL06.1023	6.057	Diesel				
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Cooler, El	Rail Direct Injection, Turb ectronic Control Module t Gas Recirculation, Peri	Smoke Puff Limiter,	Loader, Compressor, 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			1	EXHAUST (g/kW-	OPACITY (%)				
POWER CLASS	STANDARD 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	0.18	1.9	-	0.8	0.01			

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 June 2012.

Annette Hebert, Chief Mobile Source Operations Division

Deute, Nonroa				Attadam 4.Fuel Rate: mm/stroke @ peak	5.Fuel Rate: (lbs/hr)@peak	age 1 o	7.Fuel Rate:	EO# 8.Fuel Rate:	U-R-013-043 5/18/2012	3
ingine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	HP (for diesel only)	(for diesels only)	6.Torque @ RPM (SEA Gross)	mm/stroke@pe ak torque	(lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930	
DZXL06.1023	C4FI180	TCD6.1L6	241.4@2300	120	90	1000@1450	150	72 [DDI, TC, CAC, ECM, SF	L, EGR, PTO
CDZXL06.1023	C4FI180A	TCD6.1L6	241.4@2200	123	88	1000@1450	150	72 [DDI, TC, CAC, ECM, SF	L, EGR, DTO
DZXL06.1023	C4FI180B	TCD6.1L6	241.4@2100	126	87	1000@1450	150	72 [DDI, TC, CAC, ECM, SF	L, EGR, PTO)
CDZXL06.1023	C4FI180C	TCD6.1L6	241.4@2000	130	92	1000@1450	150	72 [DDI, TC, CAC, ECM, SF	L, EGR, PTO)
CDZXL06.1023	C4FI180D	TCD6.1L6	241.4@2300	120	90	1010@1450	152	73 [DDI, TC, CAC, ECM, SF	L, EGR, PTO)

PTOX = DPH + OC