 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0203-1
		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)
2007	7DZXL04.1080	4.038	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			Loader, Tractor, Dozer, Pump, Compressor, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), 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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.9	0.5	0.08	4	2	7

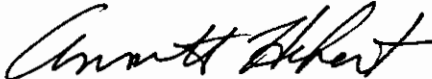
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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.

This Executive Order hereby supersedes Executive Order U-R-013-0203 dated December 22, 2007

Executed at El Monte, California on this 15 day of October 2007.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Attachment

U-R-013-0203-1

Manufacturer: **DEUTZ AG**

Engine category: **Nonroad CI**

EPA Engine Family: **7DZXL04.1080**

Mfr Family Name: **TCD2012L04 2V LOF TIER 3**

Process Code: **Running Change**

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm ³ /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 ³ /stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
C3UI103	TCD2012L04	138.1@2400	104	138.1	383.5@1600	126	44.7	DDI, TC, CAC, ECM, SPL
C3UI100	TCD2012L04	134.1@2300	100	134.1	383.5@1600	125	44.7	DDI, TC, CAC, ECM, SPL
C3UI96	TCD2012L04	128.7@2200	95	128.7	383.5@1600	126	44.7	DDI, TC, CAC, ECM, SPL
C3UI92	TCD2012L04	123.3@2100	100	123.3	383.5@1600	127	45.1	DDI, TC, CAC, ECM, SPL
C3UI89	TCD2012L04	119.3@2000	104	119.3	383.5@1600	128	45.5	DDI, TC, CAC, ECM, SPL
C3UI98	TCD2012L04	131.4@2400	98	131.4	365@1600	127	45.1	DDI, TC, CAC, ECM, SPL
C3UI95	TCD2012L04	127.3@2300	96	127.3	365@1600	126	44.7	DDI, TC, CAC, ECM, SPL
C3UI91	TCD2012L04	122@2200	97	122	365@1600	119	42.3	DDI, TC, CAC, ECM, SPL
C3UI88	TCD2012L04	118@2100	95	118	365@1600	117	41.5	DDI, TC, CAC, ECM, SPL
C3UI85	TCD2012L04	113.9@2000	96	113.9	365@1600	117	41.5	DDI, TC, CAC, ECM, SPL
C3UI93	TCD2012L04	124.7@2400	98	124.7	348.1@1600	118	41.9	DDI, TC, CAC, ECM, SPL
C3UI91A	TCD2012L04	122@2300	98	122	348.1@1600	115	40.8	DDI, TC, CAC, ECM, SPL
C3UI87	TCD2012L04	116.6@2200	98	116.6	348.1@1600	117	41.5	DDI, TC, CAC, ECM, SPL
C3UI83	TCD2012L04	111.3@2100	94	111.3	348.1@1600	116	41.2	DDI, TC, CAC, ECM, SPL
C3UI81	TCD2012L04	108.6@2000	97	108.6	348.1@1600	115	40.8	DDI, TC, CAC, ECM, SPL
C3UI90	TCD2012L04	120.6@2400	96	120.6	331.1@1600	113	40.1	DDI, TC, CAC, ECM, SPL
C3UI86	TCD2012L04	115.3@2300	93	115.3	331.1@1600	111	39.4	DDI, TC, CAC, ECM, SPL
C3UI83A	TCD2012L04	111.3@2200	90	111.3	331.1@1600	113	40.1	DDI, TC, CAC, ECM, SPL
C3UI79	TCD2012L04	105.9@2100	89	105.9	331.1@1600	112	39.8	DDI, TC, CAC, ECM, SPL
C3UI77	TCD2012L04	103.2@2000	87	103.2	331.1@1600	109	38.7	DDI, TC, CAC, ECM, SPL
C3UI93	TCD2012L04	124.7@2300	98	124.7	362.3@1500	119	41.9	DDI, TC, CAC, ECM, SPL
C3UI81	TCD2012L04	109.6@2300	97	109.6	304.2@1500	117	40.9	DDI, TC, CAC, ECM, SPL
C3UI87A	TCD2012L04	116.7@2200	98	47.9	348.1@1600	117	41.6	DDI, TC, CAC, ECM, SPL
C3UI103A	TCD2012L04	138.1@2400	104.5	55.7	383.5@1600	126.5	45	DDI, TC, CAC, ECM, SPL
C3UI103B	TCD2012L04	138.1@2400	104.5	55.7	383.5@1600	126.5	45	DDI, TC, CAC, ECM, SPL