

	DEUTZ AG	EXECUTIVE ORDER U-R-013-0203 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, Exhaust -Gas Recirculation, Smoke Puff Limiter, Engine Control Module			Loaders, Tractor, Dozer, Pump, Compressor, Other OEM Products	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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
		FEL	-	-	4.0	-	0.20	-	-	-
		CERT	-	-	3.8	0.6	0.09	4	2	7

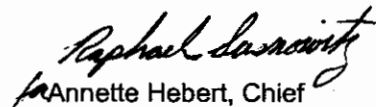
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 22nd day of December 2006.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: DEUTZ AG
Engine category: Nonroad CI
EPA Engine Family: 7DZXL04.1060
Mr Family Name: TCD2012L04 2V TIERS
Process Code: New Submission

Attachment
 EOT# 02-013-0203

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/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/stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1830
C3U103	TCD2012L04	138,1@2400	104	138,1	383,5@1600	126	44,7	DDI, TC, CAC, EM , SPL
C3U100	TCD2012L04	134,1@2300	100	134,1	383,5@1600	125	44,7	DDI, TC, CAC,
C3U196	TCD2012L04	128,7@2200	95	128,7	383,5@1600	126	44,7	DDI, TC, CAC,
C3U192	TCD2012L04	123,3@2100	100	123,3	383,5@1600	127	45,1	DDI, TC, CAC,
C3U189	TCD2012L04	119,3@2000	104	119,3	383,5@1600	128	45,5	DDI, TC, CAC,
C3U198	TCD2012L04	131,4@2400	98	131,4	365@1600	127	45,1	DDI, TC, CAC,
C3U195	TCD2012L04	127,3@2300	96	127,3	365@1600	126	44,7	DDI, TC, CAC,
C3U191	TCD2012L04	122@2200	97	122	365@1600	119	42,3	DDI, TC, CAC,
C3U188	TCD2012L04	118@2100	95	118	365@1600	117	41,5	DDI, TC, CAC,
C3U185	TCD2012L04	113,9@2000	96	113,9	365@1600	117	41,5	DDI, TC, CAC,
C3U193	TCD2012L04	124,7@2400	98	124,7	348,1@1600	118	41,9	DDI, TC, CAC,
C3U191A	TCD2012L04	122@2300	98	122	348,1@1600	115	40,8	DDI, TC, CAC,
C3U187	TCD2012L04	116,6@2200	98	116,6	348,1@1600	117	41,5	DDI, TC, CAC,
C3U183	TCD2012L04	111,3@2100	94	111,3	348,1@1600	116	41,2	DDI, TC, CAC,
C3U181	TCD2012L04	108,6@2000	97	108,6	348,1@1600	115	40,8	DDI, TC, CAC,
C3U190	TCD2012L04	120,6@2400	96	120,6	331,1@1600	113	40,1	DDI, TC, CAC,
C3U186	TCD2012L04	115,3@2300	93	115,3	331,1@1600	111	39,4	DDI, TC, CAC,
C3U183A	TCD2012L04	111,3@2200	90	111,3	331,1@1600	113	40,1	DDI, TC, CAC,
C3U179	TCD2012L04	105,9@2100	89	105,9	331,1@1600	112	39,8	DDI, TC, CAC,
C3U177	TCD2012L04	103,2@2000	87	103,2	331,1@1600	109	38,7	DDI, TC, CAC,
C3U193	TCD2012L04	124,7@2300	98	124,7	362,3@1500	119	41,9	DDI, TC, CAC,
C3U181	TCD2012L04	109,6@2300	97	109,6	304,2@1500	117	40,9	DDI, TC, CAC,