California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0218 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 system 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	7DZXL07.1051	7.1	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust -Gas Recirculation	Loaders, Other OEM Products

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
130 ≤ kW ≤ 560	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	3.5	0.5	0.10	3	1	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.

Executed at El Monte, California on this 26TH day of December 2006.

Raphael Susnowitz

for Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **DEUTZ AG**
Engine category: **Nonroad CI**
EPA Engine Family: **7DZXL07.1051**
Mfr Family Name: **TCD2013 L06 2V**
Process Code: **New Submission**

Attachment 1 of 2
EO # U-K-013-0218

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 J1930
C3UI200	TCD2013L06	268,2@2300	135	103,4	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3UI190	TCD2013L06	254,7@2300	128	98,1	737,5@1500	154	76,9	DDI, TC, CAC, ECM, SPL
C3UI181	TCD2013L06	242,7@2300	123	94,2	702,1@1500	145	72,4	DDI, TC, CAC, ECM, SPL
C3UI173	TCD2013L06	231,9@2300	118	90,4	668,9@1500	139	69,4	DDI, TC, CAC, ECM, SPL
C3UI160	TCD2013L06	214,5@2300	111	86	649@1500	132	65,9	DDI, TC, CAC, ECM, SPL
C3UI197	TCD2013L06	264,1@2200	138	101,1	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3UI188	TCD2013L06	252,1@2200	131	96	737,5@1500	154	76,9	DDI, TC, CAC, ECM, SPL
C3UI179	TCD2013L06	240@2200	125	91,6	702,1@1500	145	72,4	DDI, TC, CAC, ECM, SPL
C3UI170	TCD2013L06	227,8@2200	119	87,2	668,9@1500	139	69,4	DDI, TC, CAC, ECM, SPL
C3UI156	TCD2013L06	209,1@2200	111	81,3	649@1500	132	65,9	DDI, TC, CAC, ECM, SPL
C3UI194	TCD2013L06	260,1@2100	142	99,3	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3UI185	TCD2013L06	248@2100	135	94,4	737,5@1500	153	76,4	DDI, TC, CAC, ECM, SPL
C3UI176	TCD2013L06	236@2100	129	90,2	702,1@1500	146	72,9	DDI, TC, CAC, ECM, SPL
C3UI168	TCD2013L06	225,2@2100	124	86,7	668,9@1500	140	69,9	DDI, TC, CAC, ECM, SPL
C3UI152	TCD2013L06	203,8@2100	113	79	649@1500	131	65,4	DDI, TC, CAC, ECM, SPL
C3UI191	TCD2013L06	256,1@2000	146	97,3	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3UI182	TCD2013L06	244@2000	139	92,6	737,5@1500	153	76,4	DDI, TC, CAC, ECM, SPL
C3UI173A	TCD2013L06	231,9@2000	133	88,6	702,1@1500	146	72,9	DDI, TC, CAC, ECM, SPL
C3UI165	TCD2013L06	221,2@2000	125	83,3	668,9@1500	140	69,9	DDI, TC, CAC, ECM, SPL
C3UI148	TCD2013L06	198,4@2000	113	75,3	649@1500	131	65,4	DDI, TC, CAC, ECM, SPL
C3UI185A	TCD2013L06	248@1900	147	93	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3UI176A	TCD2013L06	236@1900	140	88,6	737,5@1500	150	74,9	DDI, TC, CAC, ECM, SPL
C3UI166	TCD2013L06	222,6@1900	132	83,5	702,1@1500	143	71,4	DDI, TC, CAC, ECM, SPL
C3UI157	TCD2013L06	210,5@1900	125	79,1	668,9@1500	137	68,4	DDI, TC, CAC, ECM, SPL
C3UI144	TCD2013L06	193,1@1900	115	72,8	649@1500	129	64,4	DDI, TC, CAC, ECM, SPL
C3UI180	TCD2013L06	241,3@1800	155	92,9	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL

EOH U-A-013-0218

EPA Engine Family: 7DZXL07.1051

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 J1930
C3UI170A	TCD2013L06	227,9@1800	143	85,7	737,5@1500	150	74,9	DDI, TC, CAC, ECM, SPL
C3UI160A	TCD2013L06	214,5@1800	135	80,9	702,1@1500	143	71,4	DDI, TC, CAC, ECM, SPL
C3UI150	TCD2013L06	201,1@1800	126	75,8	668,9@1500	137	68,4	DDI, TC, CAC, ECM, SPL
C3UI140	TCD2013L06	187,7@1800	118	70,7	649@1500	129	64,4	DDI, TC, CAC, ECM, SPL
C3UI186	TCD2013L06	249,4@2000	142	94,0	737,5@1500	153	76,4	DDI, TC, CAC, ECM, SPL
C3UI173B	TCD2013L06	231,9@2000	133	88,6	702,1@1500	146	72,9	DDI, TC, CAC, ECM, SPL
C3UI148A	TCD2013L06	198,4@2000	113	75,3	649@1500	131	65,4	DDI, TC, CAC, ECM, SPL
C3UI166A	TCD2013L06	222,8@1900	132	83,5	702,1@1500	143	71,4	DDI, TC, CAC, ECM, SPL