California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0189 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)
2006	6DZXL15.9065	11.9, 15.9	Diesel	8000

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

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
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	.20	20	15	50
450 ≤ kW ≤ 560	Tier 3	STD	N/A	N/A	4.0	3.5	.20	20	15	50
		CERT	-	-	3.9	0.5	.05	5	1	8

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 12TH day of April 2006.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **DEUTZ AG**

Engine category: **Nonroad CI**

EPA Engine Family: **6DZXL15.9065**

Mfr Family Name: **TCD2015 TIER3**

Process Code: **New Submission**

Attachment
U-R-013-0189

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
C3UI360	TCD2015V06	482,7@ 2100	264	184,7	1534,1@1300	300	209,9	DDI, TC, CAC, EGR
C3UI360A	TCD2015V06	482,7@ 2000	271	180,6	1534,1@1300	300	199,9	DDI, TC,
C3UI360B	TCD2015V06	482,7@ 1900	280	177,3	1534,1@1300	300	189,9	DDI, TC,
C3UI350	TCD2015V06	469,3@ 1800	284	170,3	1534,1@1300	300	179,9	DDI, TC,
C3UI330	TCD2015V06	442,5@ 2100	246	172,1	1475,1@1300	290	202,9	DDI, TC,
C3UI330A	TCD2015V06	442,5@ 2000	252	167,9	1475,1@1300	290	193,3	DDI, TC,
C3UI330B	TCD2015V06	442,5@ 1900	260	164,6	1475,1@1300	290	183,6	DDI, TC,
C3UI330C	TCD2015V06	442,5@ 1800	269	161,3	14751@1300	290	173,9	DDI, TC,
C3UI300	TCD2015V06	402,3@ 2100	227	158,8	1475,1@1300	290	202,9	DDI, TC,
C3UI300A	TCD2015V06	402,3@ 2000	234	155,9	1475,1@1300	290	193,3	DDI, TC,
C3UI300B	TCD2015V06	402,3@ 1900	242	153,2	14751@1300	290	183,6	DDI, TC,
C3UI300C	TCD2015V06	402,3@ 1800	250	149,9	1475,1@1300	290	173,9	DDI, TC,
C3UI273	TCD2015V06	366,0@ 2100	199	139,2	1327,6@1300	261	182,6	DDI, TC,
C3UI273A	TCD2015V06	366,0@ 2000	216	143,9	1327,6@1300	261	173,9	DDI, TC,
C3UI273B	TCD2015V06	366,0@ 1900	224	141,8	1327,6@1300	261	165,2	DDI, TC,
C3UI273C	TCD2015V06	366,0@ 1800	234	140,3	1327,6@1300	261	156,5	DDI, TC,
C3UI240	TCD2015V06	321,8@ 2100	189	132,2	1106,3@1300	228	159,5	DDI, TC,
C3UI240A	TCD2015V06	321,8@ 2000	193	128,6	1106,3@1300	228	151,9	DDI, TC,
C3UI240B	TCD2015V06	321,8@ 1900	199	126,0	1106,3@1300	228	144,3	DDI, TC,
C3UI240C	TCD2015V06	321,8@ 1800	209	125,3	1106,3@1300	228	136,7	DDI, TC,
C3UI500	TCD2015V08	670,5@ 2100	293	273,4	2131,5@1400	325	303,3	DDI, TC,
C3UI500A	TCD2015V08	670,5@ 2000	300	266,6	2131,5@1400	325	288,8	DDI, TC,
C3UI500B	TCD2015V08	670,5@ 1900	315	265,9	2131,5@1400	325	274,4	DDI, TC,
C3UI490	TCD2015V08	657,1@ 1800	317	253,5	2131,5@140	325	259,9	DDI, TC,
C3UI480	TCD2015V08	643,7@ 2100	280	261,3	2065,1@1400	315	293,9	DDI, TC,
C3UI480A	TCD2015V08	643,7@ 2000	289	256,8	2065,1@1400	315	279,9	DDI, TC,