California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0200 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	7DZXL06.1061	6.1	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, EGR, Electronic Control Module	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
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	3.9	0.9	0.07	5	5	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 19th day of June 2007.

J. Lourenco for

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **DEUTZ AG**
Engine category: **Nonroad CI**
EPA Engine Family: **7DZXL06.1061**
Mfr Family Name: **TCD2012L06 2V**
Process Code: **New Submission**

Attachment
EDTU-R-0130200

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
C3UI124	TCD2012L06	175,6@1900	108	68,3	538,4@1500	115	57,4	DDI, TC, CAC, ECM EGR
C3UI127	TCD2012L06	170,3@1800	118	70,7	567,9@1500	121	60,4	DDI, TC, CAC,
C3UI120	TCD2012L06	160,9@1800	109	65,3	538,4@1500	114	56,9	DDI, TC, CAC,
C3UI128	TCD2012L06	171,6@2000	102	67,9	538,4@1500	115	57,4	DDI, TC, CAC,
C3UI114	TCD2012L06	152,8@1800	106	63,5	507,4@1500	111	55,4	DDI, TC, CAC,
C3UI117	TCD2012L06	156,8@1900	103	65,2	507,4@1500	111	55,4	DDI, TC, CAC,
C3UI121	TCD2012L06	162,2@2000	99	65,9	507,4@1500	111	55,4	DDI, TC, CAC,
C3UI124A	TCD2012L06	166,2@2100	97	67,8	507,4@1500	111	55,4	DDI, TC, CAC,
C3UI128B	TCD2012L06	171,6@2200	96	70,3	507,4@1500	111	55,4	DDI, TC, CAC,
C3UI114A	TCD2012L06	152,8@2000	89	59,3	501,5@1500	106	52,9	DDI, TC, CAC,
C3UI118	TCD2012L06	158,2@2100	94	65,7	501,5@1500	106	52,9	DDI, TC, CAC,
C3UI121A	TCD2012L06	162,2@2200	93	68,1	501,5@1500	106	52,9	DDI, TC, CAC,
C3UI124B	TCD2012L06	166,2@2300	91	69,7	501,5@1500	106	52,9	DDI, TC, CAC,
C3UI124C	TCD2012L06	166,2@2400	86	68,7	501,5@1500	106	52,9	DDI, TC, CAC,
C3UI129	TCD2012L06	172,9@1800	120	71,9	567,9@1500	121	60,4	DDI, TC, CAC,