California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0191 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	7DZXL06.1063	5.7	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, 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	.30	20	15	50
		CERT	-	-	3.4	0.7	.12	4	1	9

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 6 day of September 2006.

Annette Hebert, Chief
Mobile Source Operations Division

Attachment
EOH U-R-013-0191

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Engine Model Summary Template

Engine Family	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
7DZXL06.1063	EEE3	D6E	170,3@ 1900	103,5	65,5	538,4@1400	125,0	58,3	DDI, TC, CAC, ECM
7DZXL06.1063	ECE3	D6E	163,6@ 1900	103,5	65,5	538,4@1400	124,5	58,0	DDI, TC, CAC,
7DZXL06.1063	EDE3	D6E	154,2@ 1800	102,0	61,1	538,4@1350	124,5	56,0	DDI, TC, CAC,
7DZXL06.1063	EAE3	D6E	164,9@ 1800	106,5	63,8	538,4@1350	124,5	56,0	DDI, TC, CAC,
7DZXL06.1063	EBE3	D6E	131,4@ 1800	87,5	52,4	460,9@1350	110,5	49,7	DDI, TC, CAC,
7DZXL06.1063	LCE3	D6E	126,0@ 2200	70,0	51,3	501,5@1600	110,0	58,6	DDI, TC, CAC,
7DZXL06.1063	LBE3	D6E	146,1@ 2200	80,0	58,6	553,1@1600	118,0	62,9	DDI, TC, CAC,
7DZXL06.1063	LAE3	D6E	159,5@ 2200	86,0	63,0	567,9@1600	120,0	63,9	DDI, TC, CAC,