California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0313 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)
2009	9DZXL06.5095	4.314	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Exhaust Gas Recirculation	Loaders, Tractor, Other Industrial Equipment

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
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.6	4.2	0.31	3	2	5

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 15 day of January 2009.

Annette Hebert, Chief
Mobile Source Operations Division

Deutz AG

Nonroad CI

Engine Model Summary Template

Attachment

U-R-013-0313

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
9DZXL06.5095	C3CI58	D914L04 53.0 kW	77.7@2300	62.5	31.9	273@1400	64	21.3	DDI, EGR
9DZXL06.5095	C3CI72.5	D914L05	97.2@2300	60.5	38.6	337@1400	61	25.4	DDI, EGR
9DZXL06.5095	C3CI68	D914L05	91.1@2150	60	35.8	329@1400	60.5	25.2	DDI, EGR
9DZXL06.5095	C3C65	D914L05	87.1@2000	60	33.3	329@1400	60.5	25.2	DDI, EGR
9DZXL06.5095	C3CI68,5	D914L05	91.8@2300	59	37.6	325@1400	60	24.9	DDI, EGR
9DZXL06.5095	C3CI65A	D914L05	87.1@2150	58	34.6	325@1400	60	24.9	DDI, EGR
9DZXL06.5095	C3CI62	D914L05	83.1@2000	58	32.2	322@1400	59.5	24.8	DDI, EGR
9DZXL06.5095	C3CI74A	D914L06 74.4 kW	100.4@2150	54.5	39.0	375@1400	57.5	28.7	DDI, EGR
9DZXL06.5095	C3CI74B	D914L06	100.4@2000	57.5	38.3	375@1400	57.5	28.7	DDI, EGR
9DZXL06.5095	D3CC57,4	D914L05	76.9@1800	57	28.4	-	-	-	DDI, EGR
9DZXL06.5095	D3CC73,4	D914L06	98.4@1800	62	37.1	-	-	-	DDI, EGR
9DZXL06.5095	C3CI74,9	D914L06	100.4@2300	51.5	39.4	375@1400	57.5	28.7	DDI, EGR
9DZXL06.5095	C3CI74C	D914L06	100.4@2300	51.5	39.4	360@1400	55	27.4	DDI, EGR
9DZXL06.5095	C3CI74D	D914L06	100.4@2150	54.5	39	360@1400	55	27.4	DDI, EGR
9DZXL06.5095	C3CI73,8	D914L06	99.2@2000	55	37.6	360@1400	55	27.4	DDI, EGR