

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0284
		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	9DZXL06.1063	5.702	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter			Loaders, 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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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):

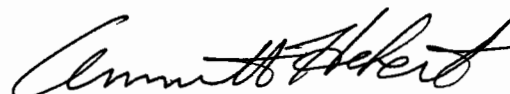
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.5	0.7	0.12	4	2	9

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 28 day of January 2009.



Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

Deutz AG
Nonroad CI

Attachment

P. 1 of 1

U-R-013-0284

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@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
9DZXL06.1063	C3G119A	D6ELAE3	159,5@2200	86	63	567,9@1600	120	63,9	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G1109	D6ELBE3	146,1@2200	80	58,6	553,1@1600	118	62,9	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G194	D6ELCE3 ⁹⁴	126@2200	70	51,3	501,5@1600	110	58,6	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G198	D6EEBE3	131,4@1800	87,5	52,4	460,9@1350	110,5	49,7	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G123	D6EEAE3	164,9@1800	106,5	63,8	538,4@1600	124,5	66,3	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G115	D6EEDE3	154,2@1800	102	61,1	538,4@1350	124,5	56	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G122	D6EECE3	163,6@1900	103,5	65,5	538,4@1400	124,5	58	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G127	D6EEEE3	170,3@1900	103,5	65,5	538,4@1400	125	58,3	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G126	D6EEGE3	168,9@1800	110	65,9	538,4@1600	124,5	66,3	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G123A	D6EEFE3	164,9@1800	106,5	63,8	538,4@1600	124,5	66,3	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G127A	D6EEHE3	170,3@1900	103,5	65,5	538,4@1400	125	58,3	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G110	D6EEIE3	147,5@2000	88	58,6	538,4@1400	113	52,7	DDI, TC, CAC, ECM, SPL
9DZXL06.1063	C3G129	D6EEHE3 ²⁹	173,6@2000	99,5	66,3	538,4@1500	118	58,9	DDI, TC, CAC, ECM, SPL

km

Date: 7/23/2009