

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0335
		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)
2010	ADZXL07.1053	7.145	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			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):

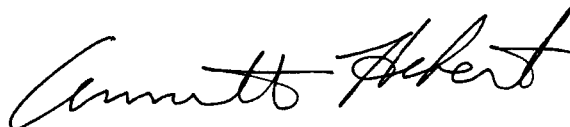
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.4	0.5	0.12	3	1	7

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 27 day of January 2010.



Annette Hebert, Chief
Mobile Source Operations Division

Deutz AG
Nonroad CI

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@p eak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ADZXL07.1053	C3GI150	D7EGCE3	201,1@2100	114	79,7	703,6@1550	149	76,9	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI165	D7EGBE3	221,2@2100	124	86,7	774,4@1550	161	83,1	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI180	D7EGAE3	241,3@2100	135	94,4	811,3@1500	171	85,4	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI162	D7ELAE3	217,2@2100	123	86	785,5@1500	165	82,4	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI150A	D7ELBE3	201,1@2100	114	79,7	785,5@1500	165	82,4	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI153	D7EEAE3	205,1@1800	131	78,5	711,7@1350	146	65,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI138	D7EEBE3	185@1800	120	71,9	641,6@1350	131	58,9	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI181	TAD760VE	242,7@2300	126	96,5	811,3@1500	170	84,9	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI200	TAD760VE	268,2@2300	138	105,7	811,3@1500	173	86,4	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI182	D7EGDE3	244@2000	142	94,6	774,4@1500	165	82,4	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1053	C3GI170	D7EGEE3	227,9@1800	147	88,1	774,4@1500	165	82,4	DDI, TC, CAC, ECM, SPL, EGR

Attachment

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12/28/2009