

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0167 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)
2006	6DZXL05.7019	3.8, 5.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler			Tractor	

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):

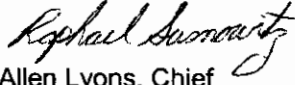
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT	-	-	5.9	0.8	0.15	7	1	18

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 30th day of December 2005.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

Attachment
4-R-013-067

Manufacturer: **DEUTZ AG**
 Engine category: **Nonroad CI**
 EPA Engine Family: **6DZXL05.7019**
 Mfr Family Name: **BF4M2013C, BF6M2013C**
 Process Code: **New Submission**

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
CE63T	BF4M2013C	95.8@2100	79	36.8	423@1400	95	30.6	DDI, TC, CAC,
CE74T	BF4M2013C	109.9@2100	88	41	488@1400	107	34.4	DDI, TC, CAC,
CE81T	BF4M2013C	119.3@2100	95	44.3	527@1400	115	37	DDI, TC, CAC,
CE88T	BF4M2013C	127.3@2100	102	47.5	563@1400	125	38.8	DDI, TC, CAC,
CE103T	BF6M2013C	151.5@2100	81	56.6	663@1450	101	48.8	DDI, TC, CAC,
CE118T	BF6M2013C	172.3@2100	92	64.3	758@1450	115	55.5	DDI, TC, CAC,
CE119T	BF6M2013C	166.2@2100	86	60.1	730@1450	108	52.1	DDI, TC, CAC,
CE85T	BF6M2013C	124.7@2100	67	46.8	546@1450	83	40.1	DDI, TC, CAC,
CE92T	BF6M2013C	135.4@2100	73	51	595@1450	90	43.4	DDI, TC, CAC,
CE124T	BF6M2013C	172.9@2100	92	64	790@1450	115	55.5	DDI, TC, CAC,
CE138T	BF6M2013C	185@2100	100	68	853@1450	126	61	DDI, TC, CAC,

**Test engine only, not produced in engine family*