DEUTZ AG

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)			
2003	3DZXL05.7019	3.8, 5.7	Diesel	8000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Dire	ct Diesel Injection, Smo Turbocharger, Charge	ke Puff Limiter, Air Cooler	Tractor				

The engine models and codes are attached.

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California Environmental Prosection Agency

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	EMISSION		EXHAUST (g/kw-hr)					OPACITY (%)		
CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 2	ŞTD	N/A	N/A	6.6	3.5	0.20	20	15	50
	·	CERT	-	5.6	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 day of December 2002.

Aller Lyons, Chief

Mobile Source Operations Division

Manufacturer: DEUTZ AG
Engine Category: Nonroad CI
EPA Family Name: 3DZXL05.7019
Mfr. Family Name: BF4M2013C
Process Code: New Submission

ENGINE MODEL SUMMARY FORM

CE92T	CE85T	CE138T	CE127T	CE119T	CE118T	CE103T	CE88T	CE81T	CE74T	CE63T	1. Engine code
BF6M2013C	BF4M2013C	BF4M2013C	BF4M2013C	BF4M2013C	2. Engine Model 3. BHP@						
130	119	185	170	159	165	145	121	113	105	90	3. BHP@
2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	RPM
73.0	67.0	100.0	92.0	86.0	92.0	81.0	92	86	80	69	4. Fuel Rate @ Rated Power (mm3/stroke)
45,5	41.7	64.7	59.6	55.8	57.9	50.7	42.2	39.4	36.6	31.7	5. Fuel Rate (lbs./hr) Rated Power
595	546	847	780	730	758	663	526	502	458	395	6. Peak RPM
1450	1450	1450	1450	1450	1450	1450	1400	1450	1450	1450	Peak Torque @ RPM(NM)
90.0	83.0	125.0	115.0	108.0	115.0	101.0	113.2	108.0	98.6	84.9	7. Peak Torque (mm³/stroke)
42.4	38.9	60.4	55.6	52.0	54.0	47.3	36.2	35.8	32.6	28.1	8. Fuel Rate (lbs./hr) @ Peak Torque
EM	m	mM	EM	m	EM	EM }	EM	mM	mM ,	EM POI, SPL, TC, CAC	9. Emission Control Device (SAE J1930)

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