State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-13-14
Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

DEUTZ CORPORATION GmbH

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 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-45-9;

IT IS ORDERED AND RESOLVED: That the following Deutz Corporation GmbH 1998 model-year engines, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Pump, Generator Set

Fuel Type: Diesel

Engine Family	Displacement Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
WDZXL06.1007	6.1	(374)	Turbocharger Charge Air Cooler Smoke Puff Limiter

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)		
THC	CO	NOx	PM	Accel	Lug	Peak
1.0	8.5	6.9	0.4	20	15	50

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

Exhaust Emissions (g/bhp-hr)				Smoke Opacity (%)		
THC	CO	NOx	PM	Accel	Lug	Peak
0.4	1.0	6.7	0.3	11	10	17

BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures--Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 19th day of July 1999.

R. B. Summerfield, Chief
Mobile Source Operations Division

1	Engine type	Displacement cm³	Engine code	Nominal Power ± 5% kW	Nominal speed ± 50 rpm rpm	Mean effective presuure bar	Injection rate at norm. speed, ±4mm³ mm³/stroke	Peak torque ± 5% Nm	Injection rate at peak torque ±4mm³ mm³/stroke	Speed at peak torque ± 100 rpm rpm	Low idle (+ 800rpm, dep. on engine applic.) rpm	High idle (+300 rpm, dep. on engine applic.) rpm
2	BF6L913C	6128	C141	141	2500	11.04	92	670	101	1500	650	2600
3	BF6L913C	6128	C136	136	2500	10.65	89	646	97	1500	650	2600
4	BF6L913C	6128	C131	131	2500	10.26	86	622	94	1500	650	2600
5	BF6L913C	6128	C134	134	2300	11.41	91	649	98	1500	650	2400
6	BF6L913C	6128	C132	132	2300	11.24	89	639	96	1500	650	2400
7	BF6L913C	6128	C128	128	2300	10.90	86	619	93	1500	650	2400
8	BF6L913C	6128	C122	122	2150	11.11	86	602	91	1500	650	2240
9	BF6L913C	6128	C121	121	2150	11.02	85	598	90	1500	650	2240
10	BF6L913C	6128	C118	118	2150	10.75	82	585	88	1500	650	2240
11	BF6L913C	6128	C117	117	2000	11.45	86	602	91	1500	650	2080
12	BF6L913C	6128	C114	114	2000	11.16	84	587	88	1500	650	2080
13	BF6L913C	6128	D151	151	1800	16.43	126	n. a.	n. a.	n. a.	n. a.	n. a.
14	BF6L913C	6128	D137	137	1800	14.90	110	n. a.	n. a.	n. a.	n. a.	n. a.
15	BF6L913C	6128	D108	108	1800	11.75	87	n. a.	n. a.	n. a.	n. a.	n. a.
16	BF6L913C	6128	D105	105	1800	11.42	84	n. a.	n. a.	n. a.	n. a.	n. a.
17	BF6L913C	6128	D99	99	1800	10.77	80	n. a.	n. a.	n. a.	n. a.	n. a.

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