State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-13-11

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, Air Conditioner

<u>Fuel Type</u>: Diesel

<u>Fuel Type</u> : Dies		Exhaust Emission Control
_	Displacement <u>Liters (Cubic Inches)</u>	Systems and Special Features
<u>Engine Family</u>		Turbocharger
WDZXL15.9002	11.9/15.87 (726/968)	Smoke Puff Limiter
		- Litton ongines shall

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):

ON 2423).	aust Emiss	ione (a/t	ho-hr)	Smoke	Opacity	<u>/ (%)</u>
Exha			P <u>M</u>	<u>Accel</u>	<u>Luq</u>	<u>Peak</u>
<u>THC</u>	<u>co</u> _	<u>N0x</u>	0.4	20	15	50
1.0	8.5	6.9	0.4		values	in a/bh

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:

	mily are:	Smoke Opacity (%)									
Exha	ust <u>Emiss</u>	ions (q/t	hp-nr1		Lug	Peak					
<u>THC</u>	<u>co</u> _	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>rua</u>	17					
0.3	0.7	6.6	0.1	6	2	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 197

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R. B. Summerfield, Chief Mobile Source Operations Division

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