## **DEUTZ AG**

EXECUTIVE ORDER U-R-013-0170 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	6DZXL05.7033	5.7, 3.8	Diesel 8000						
	FEATURES & EMISSION (		TYPICAL EQUIPMENT APPLICATION						
Direct I Smoke F	Diesel Injection, Electroni Puff Limiter, Turbocharger	c Control Module, , Charge Air Cooler	Compressor, 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 (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	EMISSION				XHAUST (g/kW-l		OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		HC NOx		NMHC+NOx	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			5.7	0.7	0.22	7	2	21	

**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 \_\_\_\_\_30<sup>2tt</sup>\_\_\_\_ day of December 2005.

🎤 Allen Lyons, Chief

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Mobile Source Operations Division

## Engine Model Summary Form

Manufacturer: Deutz AG

Engine category: Nonroad CI

EPA Engine Family: 6DZXL05.7033

Mfr Family Name: VOLVO D6D, BF6M1012EC/MVS

Process Code: New Submission

Attachment U-R-013-0170

	T,	2								No. 11		7,11300		7-:	Þ
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	DDI, ECM, SPOLET	DDI, ECM, C	DDI, ECM,	DDI, ECM,	DDI, ECM,	DDI, ECM,	DDI, ECM,	managarijani matamatan managarijani matamipani permeteran							
8.Fuel Rate: (lbs/hr)@peak torque	48.3	40.5	44.9	47.4	47.5	47.5	49.2						AND THE REAL PROPERTY AND A SECOND PROPERTY OF THE PROPERTY OF		
7.Fuel Rate: mm/stroke@peak torque	100	84	6	95	109	109	87	 The desired management for the seasons are seasons.						de la companya de la	
6.Torque @ RPM (SEA Gross)	665@1400	542@1400	595@1450	625@1400	739@1220	739@1220	570@1650	Various must be a few and the second							
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	57,6	45.5	523	61.5	61.5	52.7	46.9				27		Polytika dalam u o o makanda i ka o o kalaman, duga sakan		
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	16	72	83	88	84	72	64	and the state of t					Harry Marie II And College		
3.BHP@RPM (SAE Gross)	159.5@1900	% 120.6@1900	147.5@2000	/4~167.6@2100	159.5@2200	134.1@2200	120.6@2200	,	AND						
2.Engine Model	D6DEAE2	D6DEBE2		D6DEDE2 /	D6DLAE2	D6DLBE2	D6DLCE2							and the second s	
1.Engine Code	CE119	CE90/1	CE110	CE125	✓ CE119/1	CE100	CE90								