California Environmental Protection Agency	DEUTZ AG	EXECUTIVE ORDER U-R-013-0215 New Off-Road Compression-Ignition Engines
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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)	
2007	7DZXL06.1060	6.1	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS					
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust -Gas Recirculation			Loaders, Other OEM Products		

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		EXHAUST (g/kW-hr)			OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 <u><</u> kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	3.5	0.6	0.10	7	2	9

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 _____2674 ___ day of December 2006.

Rephail Susnewitz

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: DEUTZ AG Engine category: Nonnoad Cl EPA Engine Family: 702XL06.1060 Mfr Family Name: TAD650VE

New Submiseion

Process Code:

Attachnent

	2.12
ate: 9. Emission Control k torque Device Per SAE J1930	5 DDI, TC, CAC,
8.Fuel Rate: (bs/hr)@peak torque	55,5
7.Fuel Rate: mm/stroke@peak torque	119
8.Torque @ RPM (SEA Gross)	774,4@1400
5. Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)	78,1
4. Fuel Rate: mm/stroles @ peak HP (for clessel only)	102
3.BHP@RPM (SAE Gross)	197,1@2300
2.Engine Model	TAD650VE
1.Engine Code	C3UI147