DEUTZ AG

EXECUTIVE ORDER U-R-013-0204 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)			
2007	7DZXL02.3045	1.72, 2.29	Diesel	5000			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION				
	Direct Diesel Inje	ction	Crane, Loaders, Tractor, Dozer, Pump, Compressor				

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT	-	-	6.7	2.3	0.47	7	11	11

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 ______22422 ____ day of December 2006.

Raphael Sasnowith

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer:

Deutz AG

Engine category: Nonroad CI

EPA Engine Family: 7DZXL02.3045

Mfr Family Name: D2009L03/4

Process Code:

New Submission

Attachment Esturo13-0204

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
C3OI27,5	D2009L03	36,8@3000	31	15,4	76,7@2000	- 33	10,9	DDI, EM
C3OI27	D2009L03	36,2@2800	32	14,9	76,7@2000	33	10,9	DDI, EM
C3OI26	D2009L03	34,8@2600	32	13,8	76,7@2000	33	10,9	DDI, EM
C3O125,5	D2009L03	34,1@2500	32	13,3	76,7@2000	33	10,9	DDI, EM
C3OI36	D2009L04	48,2@3000	31	20,6	105,4@2000	34,5	15,3	DDI, EM
C3OI35,7	D2009L04	47,8@2800	32	19,9	105,4@2000	34	15,1	DDI, EM
C3Ol35,2	D2009L04	47,2@2600	32	18,4	105,4@2000	34	15,1	DDI, EM
C3OI34,6	D2009L04	46,3@2500	33	18,3	105,4@2000	34	15,1	DDI, EM
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