## **DEUTZ AG**

EXECUTIVE ORDER U-R-013-0179

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	6DZXL01.4029	1.0284, 1.3712	Diesel	3000, 5000						
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
	Indirect Diesel Injec	ction	Loader, Tractor, Dozer, Pump, Compressor, Generator Se 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 POWER CLASS	EMISSION			E	EXHAUST (g/kW-l	OPACITY (%)					
	STANDARD CATEGORY		НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK	
8 <u>&lt;</u> kW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	20	15	50	
19 <u>≤</u> kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50	
		CERT	-	-	4.8	2.4	0.26	2	2	4	

**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 \_\_\_\_\_\_ day of December 2005.

Allen Lyons, Chief

Repland Susmonts

Mobile Source Operations Division

## Engine Model Summary Form

Manufacturer: Deutz AG

Engine category: Nonroad CI

EPA Engine Family: 6DZXL01.4029

Mfr Family Name: FM1008F

Process Code: New Submission

Attachuent U-R-013-0179

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9.Emission Control Device Per SAE J1930			٦	۵	G	۵		Ō	IOI	IQ	٩		٥	⊡	101				and a sufficient of the subsection of the subsec				
8.Fuel Rate: (lbs/hr)@peak torque		7.5	7.3	7.3	0	0	10.2	9.3	6.9	9.3	9.2		1.0	0	0				and the second control of the second control				
7.Fuel Rate: mm/stroke@peak torque	21.7	21.5	21	21	n.a.	n.a.	21	21	21	21	20.8		20.7	п.а.	na including and a second and a								
6.Torque @ RPM (SEA Gross)	47.2@2000	46.5@2000	45.7@2000	45.7@2000	n.a.@n.a.	n.a.@n.a.	57.5@2100	59@1900	59@1900	59@1900	57.5@1900	54.6@1700	55.7@1900	n.a.@n.a.	n.a.@n.a.				And the state of t				
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	12.7	desseriamente de la company de	11.8	11.5	5.6	12.7	16.5	15.8	15.3	estimatestimistations constitutions (13.3	12.5	minutes styles manageristis and season of 122		7.7	12.9				and the second section of the second section is a second section of the second section is a second section of				
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	21.2	21.2		21	18.7	21.2	20.7	21		20	20.2	20.2	20.2	19.5	19.5		replacement remail commencer commencement and commencement commencer commencer commencers						
3.BHP@RPM (SAE Gross)	26.1@3600	23.4@3000	25.7@3400	24.8@3300	/* 13.4@1800	26.1@3600	عرب 34.1@3600	33.9@3400	32.8@3300	30.1@3000	29@2800	25.4@2500	24.8@2400	18.2@1800	29.5@3000			demonstration of the property of the second	energia de la companya de la company			A STATE OF THE PROPERTY OF THE	
2.Engine Model	F3M1008F	F3M1008F	F3M1008F	F3M1008F	F3M1008F	F3M1008F	F4M1008F 2	F4M1008F	F4M1008F	F4M1008F	F4M1008F	F4M1008F	F4M1008F	F4M1008F	F4M1008F		Visitor investmental proprieta constructivo de la construcción de la c				PHARMATINA CONTRACTOR		
1.Engine Code	CE19,5	CE17,5	CD19,2	CD18,5	DE10	DE19,5	CD25,5	CD25,3	CD24,5	CD22,5	CD21,7	CD19,0	CD18,5	DE13,6	DE22		AND			e demonstrate destruction et al. e destruction et a	dissemble delle se sederit ti trette delle commence delle sederit delle		