Californ	ia Environmental Protection /	Agency
AIR	ia Environmental Protection / RESOURCES	BOARD

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-45-9;

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)
2002	2DZXL05.7020	3.8, 5.7	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
Dire	ct Diesel Injection, Smo Turbocharger, Charge	ke Puff Limiter, Air Cooler	Tractor	

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-ł	אר)		OF	PACITY (%	<b>6</b> )
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <kw<75< td=""><td>Tier 1</td><td>STD</td><td>N/A</td><td>9.2</td><td>N/A</td><td>N/A</td><td>N/A</td><td>20</td><td>15</td><td>50</td></kw<75<>	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
75 <kw<130< td=""><td>Tier 1</td><td>STD</td><td>N/A</td><td>9.2</td><td>N/A</td><td>N/A</td><td>N/A</td><td>20</td><td>15</td><td>50</td></kw<130<>	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
	<u> </u>	CERT	-	9.1	-	-	-	1	1	2

**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 February 2002.

Allen Lyons, Chief New Vehicle/Engine Programs Branch

20114-F-013-0060 attachmont 19

## Engine Model and Part Number Summary Form

Manufacturer: DEUTZ AG Engine category: Nonroad CI EPA Engine Family: 2DZXL05.7020

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	10-000	2011 1120	PFM 1 P 90 S 100/ JULLA 140PV310/9/01 0211 1/02 1/0-000	1 PFW 1 P 90 S 1007	86	1450	580	67	2100	92.0	123	REGMON13	
04252302	78_800	0344 4763	DI AAADV/2407070			1400	100	02.0	0012	85.0	114	BF6M2013	C91.5
04202002	008-87	0211 1762	DU8-8/1 D 90 S 1007 DLLA148PV31879701 0211 1762 78-800	DEM 1 P 90 S 1007	98	1/50	E 3 7		1	0.0.0		OL ATAIL 10	62
		20111202	PFM 1 P 90 S 100/ 10LLA140PV310/9/0 0211 1/02 1/0-000	1PFM 1 P 90 S 1007	92	1450	387	73.0	2100	63 0	84	BEAMON13	200
04252822	78 800	0041 1780				1 pm	N	rpm	rpm	٨W	Ţ		
part nump.	- rpm	draw. numb.	nart numb.	han n h	atraka		-	0					
	stroke				/°mm			stroke/					
	IDEN'Y							mm <sup>3</sup> /				Light of mooor	
Turbocharger	Smoke limiter, part of speed governor, - 5mm <sup>3</sup>	Speed governor	Fuel injector	Fuel injection pump	Injection rate at peak torque ±4mm <sup>3</sup>	Speed at peak torque ± 100 rpm	Peak r torque ± 5%	Injection rate at rated power	Rated Power Engine	RkW			Engine

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