**EXECUTIVE ORDER U-R-013-0056** 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-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	2DZXL15.9003	11.9, 15.9	Diesel	8000
SPECIAL I	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT A	APPLICATION
Direct Diese	el Injection, Smoke Puff	Limiter, Turbocharger	Pump, Compressor, Generator S	et, 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	EMISSION STANDARD				XHAUST (g/kw-l	nr)		OF	PACITY (%	<u> </u>
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
130 <u>&lt;</u> kW<225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.4	9.0		1.5	0.14	6	2	17

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

Manufacturer: DEUTZ AG
Engine category: Nonroad CI
EPA Engine Family: 2DZXL15.9003

## Engine Model and Part Number Summary Form

				** This rating is listed as the cartification test rating for this 120, 225 VM family, but is not being rating to the cartification test rating for this 120, 225 VM family, but is not being rating to the cartification test rating for this 120, 225 VM family, but is not being rating to the cartification test rating for this 120, 225 VM family, but is not being rating to the cartification test rating for this 120, 225 VM family, but is not being rating to the cartification test rating for this 120, 225 VM family, but is not being rating to the cartification test rating for the ca		325 1414	Ar this 130	toot ratios t	Portification	25 1	no is liste	** This ratio	
s3b-138g	n.a.	RUV9UUPAV	DLLA 106F426	1 FOI 1 ZONOZOFO1 904-111 900	;			i					
s3b-138g	n.a.	TO SOUTAV	DI 14690426	PERP120A320LG7304-177020	ָר בּ בּיִר בּי	ם מ	_ as	169	800	211	283	BF6M1015	D211/1
s3b-138g	n.a.	BOUGGERAY	DI I A169D426	PE6P120A320LS750A-1/7930	n ::		n.a	178	1800	222	_	BF6M1015	D222
s3b-138h	165-800	DLLA166F426   RQV300-900FAVB420033639	D11 4169D426	PE6P120A320L3730477330	<b>3</b> 6	na	ت ف	200	1800	250		BF6M1015	D250/1 **
s3b-138h	165-800	RUV300-900PAVB420033639	DI 1468P426	DE6D120A320L3/904/7930	190	1300	1316	163	1800	203		BF6M1015	C203/1
s3b-138h	165-800	RUV300-900PAVB420033639	DL 14680426	PE6012003201 57904/7930	198	1300	1354	168	1800	_		BF6M1015	C209
s3b-138h	165-800	RUV300-900PAVB420033639		PESP120A320L3/904/7930	200	1300	1368	169	1800			BF6M1015	C211/1
s3b-138h	165-800	KQV300-950PAVB420033599	1	DEED130V330I 8700V72030	200	1300	1426	176	1800	4	7	BF6M1015	C220/1
s3b-138h	165-800	7.07300-930FAVB420033599		PE6P120A3201 S700A77020	197	1300	1347	165	1900	214	287	BF6M1015	C214/4
S3D-738h	105-007	DOV/300 050DAV/D420033599	DI 11695436	PE6P120A3201 \$700A/7030	206	1300	1404	172	1900	223	299	BF6M1015	C223/4
530-1380	165 000	BUNJU OEUBANBAJOUSSEOU	DI I 4168P426	PE6P120A3201 S7904/7930	224	1300	1511	185	1900	240	5 322	BF6M1015	C240/4 **
1000	165 000	DI I A168P426 ROV300_1000P4VB420032622	DI   A168P426	PE6P120A320LS7904/7930	204	1300	1387	166	2000	223	_	SLOLWG-IR	L223/5
52h 138h	185_R00	ROV300-1050PA1325	DLLA168P426	PE6P120A320LS7904/7930	192	1300	1316	156	2100	-	1		200
s3b-138h	165-800	RQV300-1050PA1325	DLLA168P426	PE6P120A320LS7904/7930	201	1300	13/0	100	2 2	1	- -	DEGM 101	C14/2
designation	-rpm	BOSCH TYPE	BOSCH TYPE	BUSCHITTE			177	103	3120	-	1	BE6M1015	C223/3
_	stroke				stroke	3	2	stroke	3	×.	₹		
	mm³/							H 1					
Turbocharger	governor - 10mm³	Speed governor	Fuel injector	Fuel injection pump	±6mm³ -	100rpm	1	±6mm³	Speed	BkW	뫔	Model	code
	part of speed				Injection rate	peak formue +	e Peak er formue	Injection rate at rated nower	Fower	<del></del> ,		Engine	Engine
	Smoke limiter.					Speed at		- :	Rated				
										•		•	
										_		-	