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	2DZXL03.8016	2.8, 3.8	Diesel	5000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
Dire	ect Diesel Injection, Smo	ke Puff Limiter	Pump, Compressor, Generator S	Set, 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	EMISSION	<u> </u>			EXHAUST (g/kw-1	ır)		OF	PACITY (%	b)
POWER	STANDARD CATEGORY		нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
CLASS 19 <kw<37< td=""><td>Tier 1</td><td>STD</td><td>N/A</td><td>N/A</td><td>9.5</td><td>5.5</td><td>0.80</td><td>20</td><td>15</td><td>50_</td></kw<37<>	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50_
19 <u>7</u> K44-21	1164 1	CERT	1077		9.1	3.5	0.57	11	9	16

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

Engine Model and Part Number Summary Form

20# 4-R-813-0069 Affrehment 181

Manufad Engine d EPA En	Manufacturer: DEUTZ AG Engine category: Nonroad Cl EPA Engine Family: 2DZXL03.8016	G ad Cl ZXL03.80	16	Engi	Engine Model and Part Number Summary	d Part N	lumber s	Summary Form		17 Talkinem	6-7
		;		Rated			Speed at				
 1 -				Power	Injection rate at	Peak torque ±	peak torque ±	Injection rate at peak torque			n timing
Engine	Engine Mode	뫔	BkW 	Speed	±6mm³	5%	100 rpm	±4mm³	Fuel injection pump	Fuel injector	(-1°)
		Ŧ	É	ma	mm³/ stroke	N m	rpm	stroke	description	description	btdc
C36/9	F3I 912	48	36.0	2500	54	164	1500	57	PES3A95D410/3RS2939 DLLA14/F6/3	DLLA14/P0/5	10,5
C36	F3L912	48	36.0	2300	56	172	1500	1 9	DES2/05D410/3RS2939 DI A147P875	DI I A147P875	10.5
C35	F3L912	47	35.0	2300	42	164	1500	r 9/	DES3A95D410/3RS2939	DLLA147P875	10.5
C36/1	F3L912	48	36.0	2150	57.5	3 2	1500	η <u>ς</u>	PES3A95D410/3RS2939		10.5
C35/1	F3L912	47	35.0	2150	, , , , ,	164	1000	7	PES3A95D410/3RS2939 DLLA147P875	DLLA147P875	10.5
C32	F3L912	43	32.0	2150	0.0	100	1700	57	PES3A95D410/3RS2939	DLLA147P875	10
C34	F3L912	46	34.0	2000	00.0	7 8	700	57 :	PES3A95D410/3RS2939 DLLA147P875	DLLA147P875	10
C32/1	F3L912	43	32.0	2000	02.0	164	1500	57 ·	PES3A95D410/3RS2939 DLLA147P875	DLLA147P875	10
C30	F3L912	: 40	30.0	1000	60 60 61	ב ה ה	_ a 6	n.a.	PES3A95D410/3RS2953	DLLA147P854	9
D33	F3L912	4 £	ુ સુર -	1800	ე ი ნ	n.a.	n.a.	n.a.	PES3A95D410/3RS2953 DLLA147P854	DLLA147P854	9
7 2 2	F31 912	42	31.0	1800	52.5	n.a.	n.a.	n.a.	PES3A95D410/3RS2953	DLLA14/P854	ی اه
D30.5	F3L912	41	30.5	1800	51	n.a.	n.a.	, n.a.	PES3A95D410/3RS2953 DLECTT: 007	DI LA147P854	9
D29	F3L912	39	29.0	1800	49	n.a.	5 E	, 3	PES3A95D410/3RS2953	DLLA147P854	9
D28	F3L912	38	28.0	1800	4/	2 2	2 2	י פיני	PES3A95D410/3RS2953 DLLA147P854	DLLA147P854	9
D27	F3L912	38	27.0	1500	J 0	ם ב	2 5	_ D 3	PES3A95D410/3RS2953	DLLA147P854	9
D25	F3L912	4	30.0	1800	44.5	ח פו	n.a.	⊐	PES4A95D410/3RS2932		10
730/	F4L912	40	20.5	1800	37	n.a.	n.a.	n.a.	PES4A95D410/3RS2933	$\overline{}$: =
D35	F3L913	47	35.0	1800	60	n.a.	n.a.	n.a.	PESSA900410/SROZ955	ן טבניאוייי סטי	-