California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0065 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	2DZXL06.1008	6.1	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler	Pump, Generator 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75≤kW<130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
130≤kW<225	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.6	8.9	-	1.4	0.40	11	10	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 28TH day of February 2002.

Allen Lyons, Chief
New Vehicle/Engine Programs Branch

ED# U-R-013-0065
Attachment 1 of 2

Manufacturer: DEUTZ AG
Engine category: Nonroad CI
EPA Engine Family: 2DZXL06.1008

Engine Model and Part Number Summary Form

Engine code	Engine Model	BHP	BkW	Rated Power Engine Speed	Injection rate at rated power ±6mm³	Peak torque ± 5%	Speed at peak torque ± 100 rpm	Injection rate at peak torque ±4mm³	Fuel injection pump	Fuel injector	Injection timing (- 1°)	Smoke limiter, part of speed governor, - 5mm³	Turbocharger
		HP	kW	rpm	mm³/ stroke	Nm	rpm	mm³/ stroke	description	description	°btdc	mm³/ stroke -rpm	part numb.
C141	BF6L913C	189	141	2500	92	670	1625	101	PES6A95D410/3RS2909	DLLA147P854	20	64	S2B018H
C141/1	BF6L913C	189	141	2500	92	670	1625	101	PES6A95D410/3RS2909	DLLA147P854	20	n.a.	S2B018H
C136	BF6L913C	182	136	2500	89	646	1625	97	PES6A95D410/3RS2909	DLLA147P854	20	64	S2B018H
C133	BF6L913C	178	133	2500	87	646	1625	97	PES6A95D410/3RS2909	DLLA147P854	20	64	S2B018H
C131	BF6L913C	176	131	2500	86	622	1625	94	PES6A95D410/3RS2909	DLLA147P854	20	64	S2B018H
C129	BF6L913C	173	129	2500	85	622	1625	94	PES6A95D410/3RS2909	DLLA147P854	20	64	S2B018H
C134	BF6L913C	180	134	2300	91	649	1625	98	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C132	BF6L913C	177	132	2300	89	639	1625	96	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C128	BF6L913C	172	128	2300	86	619	1625	93	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C125	BF6L913C	168	125	2300	83	598	1625	90	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C118/1	BF6L913C	158	118	2300	81	585	1625	88	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C126	BF6L913C	169	126	2150	89	619	1625	93	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C122	BF6L913C	163	122	2150	86	602	1625	91	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C121	BF6L913C	162	121	2150	85	598	1625	90	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C118	BF6L913C	158	118	2150	82	585	1625	88	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C121/1	BF6L913C	162	121	2000	89	619	1625	93	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C117	BF6L913C	157	117	2000	86	602	1625	91	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C114	BF6L913C	153	114	2000	84	587	1625	88	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C111	BF6L913C	149	111	1800	89	602	1625	91	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C99	BF6L913C	133	99	1800	82	530	1625	85	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C96	BF6L913C	129	96	1800	80	530	1625	85	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C95	BF6L913C	127	95	1800	80	530	1625	85	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
D151	BF6L913C	202	151	1800	132	n. a.	n. a.	n. a.	PES6A95D410/3RS2876	DLLA147P854	18		
D143,5	BF6L913C	192	144	1800	126	n. a.	n. a.	n. a.	PES6A95D410/3RS2876	DLLA147P854	18	n. a.	S2B018H
D136,5	BF6L913C	183	137	1800	110	n. a.	n. a.	n. a.	PES6A95D410/3RS2876	DLLA147P854	18	n. a.	S2B018H
D129	BF6L913C	173	129	1800	104	n. a.	n. a.	n. a.	PES6A95D410/3RS2876	DLLA147P854	18	n. a.	S2B018H
C84	BF4L913C	113	84	2300	90	400	1650		PES4A95D410/3RS2789	DLLA147P854	14	64	S2A165B
	COM												
C129,5	BF6L913C	165	123.3	2500	85	622	1625	94	PES6A95D410/3RS2909	DLLA147P854	20	64	S2B018H
C129,5/	BF6L913C	167	124.7	2300	83	598	1625	90	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C118/1	BF6L913C	158	118.0	2300	81	585	1625	88	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C126	BF6L913C	169	126.0	2150	89	619	1625	93	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H

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Engine category: Nonroad CI
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		HP	kW	rpm	mm³/ stroke	Nm	rpm	mm³/ stroke	description	description	°btdc	mm³/ stroke -rpm	part numb.
C122	BF6L913C	163	122.0	2150	86	602	1625	91	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C121	BF6L913C	162	121.0	2150	85	598	1625	90	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C118	BF6L913C	158	118.0	2150	82	585	1625	88	PES6A95D410/3RS2909	DLLA147P854	19	64	S2B018H
C121/1	BF6L913C	162	121.0	2000	89	619	1625	93	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C117	BF6L913C	157	117.0	2000	86	602	1625	91	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C114	BF6L913C	153	114.0	2000	84	587	1625	88	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C111	BF6L913C	149	111.0	1800	89	602	1625	91	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C99	BF6L913C	133	99.0	1800	82	530	1625	85	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C96	BF6L913C	129	96.0	1800	80	530	1625	85	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H
C95	BF6L913C	127	95.0	1800	80	530	1625	85	PES6A95D410/3RS2909	DLLA147P854	18	64	S2B018H