

File



DEUTZ AG

EXECUTIVE ORDER U-R-013-0053
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	2DZXL71.0021	35.4, 53.1, 70.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler			Generator Set	

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
KW > 560	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	N/A	N/A	N/A
		CERT	0.7	8.3	--	0.6	0.37	--	--	--

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
Allen Lyons, Chief
New Vehicle/Engine Programs Branch

Manufacturer: DEUTZ AG
 Engine Category: Nonroad CI
 EPA Engine Family: 2DZXL71.0021-Rev.1

Engine Model and Part Number Summary Form

EO #U-K-013-0053
 Attachment 1 of 1

Engine Model	BKW	BHP	Rated Power Engine Speed	Injection Rate at Rated power	Injection pump I	Injection pump II	Injector	Injection timing, tolerance - 1°	Turbocharger
TBD 620 V8	960	1287	1800	543	PE 8/10/150/100 LS 49	-	KBA 142 T 7/13	25	RR 151 - VG21 / HF11 / WG06 / AF13
TBD 620 V8	1008	1352	1800	573	PE 8/10/150/100 LS 49	-	KBA 142 T 7/13	25	RR 151 - VG21 / HF11 / WG06 / AF13
TBD 620 V8	1056	1416	1800	601	PE 8/10/150/100 LS 49	-	KBA 142 T 7/13	25	RR 151 - VG21 / HF11 / WG06 / AF13
TBD 620 V12	1440	1931	1800	543	PE 12/10/150/100 LS 55	-	KBA 142 T 7/13	25	RR 151 - VG15 / HF12 / WG04 / AF11
TBD 620 V12	1512	2028	1800	570	PE 12/10/150/100 LS 55	-	KBA 142 T 7/13	25	RR 151 - VG15 / HF12 / WG04 / AF11
TBD 620 V12	1584	2124	1800	601	PE 12/10/150/100 LS 55	-	KBA 142 T 7/13	25	RR 151 - VG15 / HF12 / WG04 / AF11
TBD 620 V12	1465	1965	1800	538	PE 12/10/150/100 LS 54	-	KBA 142 T 7/13	26	RR 151 - VG15 / HF12 / WG04 / AF11
TBD 620 V12	1465	1965	1800	540	PE 12/10/150/100 LS 54	-	KBA 142 T 7/13	28	RR 151 - VG15 / HF12 / WG04 / AF11
TBD 620 V12	1465	1965	1800	551	PE 12/10/150/100 LS 55	-	KBA 142 T 7/13	25	RR 151 - VG15 / HF12 / WG04 / AF11
TBD 620 V16	1920	2575	1800	543	PE 8/10/150/100 LS 52	PE 8/10/150/100 LS53	KBA 142 T 7/13	25	RR 151 - VG21 / HF11 / WG06 / AF13
TBD 620 V16	2016	2703	1800	570	PE 8/10/150/100 LS 52	PE 8/10/150/100 LS53	KBA 142 T 7/13	25	RR 151 - VG21 / HF11 / WG06 / AF13
TBD 620 V16	2112	2832	1800	601	PE 8/10/150/100 LS 52	PE 8/10/150/100 LS53	KBA 142 T 7/13	25	RR 151 - VG21 / HF11 / WG06 / AF13