

EXECUTIVE ORDER U-R-013-0054 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	2DZXL35.0001	17.5, 26.3, 35.0	Diesel	8000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Dire	ect Diesel Injection, Smo Turbocharger, Charge	ke Puff Limiter, Air Cooler	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				EXHAUST (g/kw-ł	OPACITY (%)				
POWER CLASS	STANDARD		НС	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	0.6	8.6		1.0	0.22			

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 Cl
EPA Engine Family: 2DZXL35.0001

Engine Model and Part Number Summary Form

2ttachment 1.6 1

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	DA 1095 A2	DA 1095 A1	DA 996 A2	DA 996 A1	DA 0821 A2	DA 0821 A1	DA 747 A2	DA 747 A1	,000	CBBO	C660	C440 **				Engine code
** This rating is listed as the certification test rating for this >560 kW family, but is not being certified	TBD 616 V16	TBD 616 V16	TBD 616 V16	TBD 616 V16	TBD 616 V12	TBD 616 V12	TBD 616 V12	TBD 616 V12		TRD 616 V16	TBD 616 V12	TBD 616 V8				Engine Model
is listed	\dashv	1468	1336	1336	1101	1101	1002	1002	-	1179	884	590		푸	\rightarrow	ВНР
as the c	1468 1095.0	1095.0	996.0	996.0	821.0	821.0	747.0	747.0	-+	880.0	660.0	440.0		ΚW		BkW
ertificati	0 1800	0 1800	1800	1800	1800	1800	1800	1800	_	2000	2000	2000		rpm		Rated Power Engine Speed
on test ratio	331	331	302	302	331	331	302	302	+	235.0	0 235.0	235.0		stroke	/emm	Injection rate at rated power, ±4mm³
g for this >5	NA	NA	NA A	NA A	NA A	NA A	X	NA		4068.0	3051.0	2034.0		N _M	•	Peak torque ±
60 kW f	Ϋ́	N.	Z	Z	S	Z	Ϋ́	¥		1500	1500	1500		rpm		Speed at peak torque ± 200
amily, but is	16	14	16	14	6	14	16	14		12	12	7.7	5	aeg a luc	PTD	Inj. Timing
not being	NA A	NA NA	Z	Z	Z Z	Z	N N	Z N		280	280	200	200	Stroke	mm ⁴ /	Injection rate at peak torque
certified due to its lower power output that places it in the 225-450 kW power category.	PE12P12UA5UUSK, PEIZPIZUASZUSK,	PE12P120A300/3R, PE12P120A520/3R,	PE ZP 120A300/3N, PE 12P 120A320/3N,	PE12P120A300/3A, PE12P120A520/5A,	PEIZP 120A000/07, FE12P 120A520/5R	PE12P120A500/5R, PE12P120A520/5R	PE12P120A500/50, FE12P120A520/5R	PE12P120A500/5R, PE12P120A520/5R,		122/ /644	122/ /044	1227 7044	1007 7644	description	description	Fuel injection pump
places it in th	١.	- 1	1231 4246	1231 4246	1231 4246	1231 4246	1231 4246	1231 4246		1221	1007 7366 1007 7078	1227 7366 1227 7278	1227 7366 1227 7047		description	Fuel
e 225-450 kW power category.	1000 000 000 000	1231 4246 K36 4665 OOAKB 25 22 1231 6338	1231 4246 K36 4665 OOAKB 25.22, 1231 6338	1231 4246 K36 4665 OOAKB 25.22, 1231 6338	1231 4246 K36 4665 OOAKB 25.22, 1231 6338	1231 4246 K36 4665 OOAKB 25.22, 1231 6338	1231 4246 K36 4665 OOAKB 25.22, 1231 6338	1231 4246 K36 4665 OUAKB 25.22, 1231 6338	200 000 0000 0000		1997 7978	1997 7278	1227 7047		description	Turbocharger