

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	2DZXL07.1032	7.1, 4.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Electronic Control Module, Smoke Puff Limiter, Turbocharger, Charger Air Cooler			Compressor, 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	5.5	--	0.6	0.09	8	2	24

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 22nd day of January 2002.



R. B. Summerfield, Chief
 Mobile Source Operations Division

Engine Model Summary Form

EPA# U-R-013-005 /

Manufacturer: **Deutz AG**
 Engine category: **Nonroad CI**
 EPA Engine Family: **21DZXL07.1032**
 Mfr. Family Name: **VOLVO D7D, BF6M1013EC/ECPI/C-MVS**
 Process Code: **New Submission**

1. Engine Code	2. Engine Model (KW)	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm ³ /stroke @ 1500 (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm ³ /stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
CE134	D7DEBE2	180/2000	100	63.9	750Nm/1400	112	30.1	CAC,SPL,TC ECM
CE133	D7DEAE2	203/1900	118	75.4	940Nm/1400	139	32.2	CAC,SPL,TC
CE129	D7DGAE2	129/173/2200	88	56.2	801Nm/1400	119	53.2	CAC,SPL,TC
CE153/1	D7DGBE2	205/2200	104	66.5	950Nm/1400	140	65.6	CAC,SPL,TC
CE170	D7DGCE2	228/2200	114	72.8	1050Nm/1400	154	72.2	CAC,SPL,TC
CE180	D7DGDE2	180/241/2200	120	76.7	1030Nm/1400	154	72.2	CAC,SPL,TC
CE162	D7DLAC2	217/2100	114	72.8	1020Nm/1400	151	70.8	CAC,SPL,TC

EPA# D2X-NR6-02-29