

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	2DZXL00.7030	0.7	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	Loader, Compressor, 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	***	EXHAUST (g/kw-hr)				OPACITY (%)			
	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
KW < 8	Tier 1	STD	N/A	N/A	10.5	8.0	1.0	20	15	50
8 <kw<19< td=""><td>Tier 1</td><td>STD</td><td>N/A</td><td>N/A</td><td>9.5</td><td>6.6</td><td>0.80</td><td>20</td><td>15</td><td>50</td></kw<19<>	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
0_R11 113	11011	CERT	-		5.8	3.5	0.20	1	11	1

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 _

2874

day of February 2002.

Aller Lyons, Chief

New Vehicle/Engine Programs Branch

Seite

±4mm³ rate at torque Injection stroke 20.4 21.7 mm³/ peak 107.6590.290 107.6531.436 107.6590.290 | 107.6531.436 Fuel injection 107.6590.290 | 107.6531.436 description ES# 4-1-013-0083 dund attachment 18 Fuel Injector description

Engine Model and Part Number Summary Form

Manufacturer: DEUTZ AG Engine Category: Nonroad CI

EPA Engine Family: 2DZXL00.7030

Engine code

Engine Model

BHP

Bk₩

Speed Engine Power Rated

±4mm³ power, at rated

> torque ± Peak

5%

200 rpm torque ±

mm³/

Injection rate

Speed at peak

|픇

rpm

C11.0 C11,6 D6.5

9 16 9

11.6 6.5 11.0 ⋛

3000 3600 1800

stroke 20.0 19.5 18.2

36.2 38.1

2200 2200 rpm m

N N

F2M1008F F2M1008F F2M1008F