



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-02-003;

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)
2005	5DZXL01.6050	1.17, 1.56	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Loader, Tractor, Pump, Compressor	

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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT	-	-	5.6	0.7	0.20	4	3	6

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 7TH day of September 2004.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

Attachment 1 of 1
U-P-013-0143

Manufacturer: Deutz AG
 Engine category: Nonroad CI
 EPA Engine Family: 5DZXL01.6050
 Mfr Family Name: D2008L3, D2008L4
 Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
CE20	D2008L03	26,8@3000	25	11,9	52,3@2000	26	8,6	IDI
CE19,3	D2008L03	25,8@2800	25	11,6	52,3@2000	26	8,6	IDI
CE18,4	D2008L03	24,6@2600	25	10,8	52,3@2000	26	8,6	IDI
CE18,1	D2008L03	24,2@2500	25	10,8	52,3@2000	26	8,6	IDI
CE17,5	D2008L03	23,4@2400	25	10,3	52,3@2000	26	8,6	IDI
CE26,6	D2008L04	35,7@3000	25	15,9	67,8@2000	26	11,1	IDI
CE25,6	D2008L04	34,3@2800	25	14,9	67,8@2000	25	11,1	IDI
CE24,5	D2008L04	32,8@2600	25	13,8	67,8@2000	25	11,1	IDI
CE24	D2008L04	32,1@2500	25	13,3	67,8@2000	25	11,1	IDI
CE23	D2008L04	30,8@2400	25	12,7	67,8@2000	25	11,1	IDI