

 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0197 New Off-Road Compression-Ignition Engines
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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 systems 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)
2007	7DZXL06.5042	6.5, 5.4, 4.3, 3.2	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			Pump	

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):

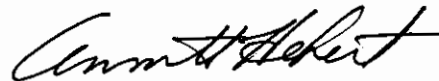
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
37 ≤ KW <56	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
56 ≤ KW <75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	--	--	7.1	1.5	0.26	2	2	2

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 26 day of October 2007.



Annette Hebert, Chief
Mobile Source Operations Division

U-2-013-0197

EPA Engine Family: 7DZXL06.5042

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
CE50/1	F4L914	69,1@2150	58	27,7	191,7@1500	63	20,9	DDI, EM
CE48	F4L914	66,5@2150	55	26,2	184,3@1500	61	20,3	DDI, EM
CE50/2	F4L914	68,7@2000	60	26,6	195,4@1500	64	21,3	DDI, EM
CE48/1	F4L914	66,1@2000	58	25,7	188@1500	63	20,9	DDI, EM
CE45	F4L914	62@2000	55	24,4	180,7@1500	60	19,9	DDI, EM
DE49	F4L914	66,9@1800	65	25,9	FIXED	0	0	DDI, EM
DE49/1	F4L914	66,9@1846	64	26,2	FIXED	0	0	DDI, EM
DE50	F4L914	68,5@2000	60	26,6	FIXED	0	0	DDI, EM
DE52	F4L914	71,7@2200	55	26,8	FIXED	0	0	DDI, EM
DE53,5	F4L914	74,4@2400	55	29,3	FIXED	0	0	DDI, EM
CE71,7	F5L914	100,4@2500	58	40,2	245,6@1500	63	26,2	DDI, EM
CE70	F5L914	98,1@2500	57	39,5	239,7@1500	60	24,9	DDI, EM
CE70/1	F5L914	97,2@2300	58	37	245,6@1500	63	26,2	DDI, EM
CE66	F5L914	91,8@2300	56	35,7	236@1500	59	24,5	DDI, EM
CE63	F5L914	87,8@2300	55	35,1	233,8@1500	58	24,1	DDI, EM
CE66/1	F5L914	91,1@2150	58	34,6	239,7@1500	60	24,9	DDI, EM
CE63/1	F5L914	87,1@2150	56	33,4	236@1500	59	24,5	DDI, EM
CE60	F5L914	83,1@2150	55	32,8	230,8@1500	57	23,7	DDI, EM
CE63/2	F5L914	86,6@2000	58	32,2	239,7@1500	60	24,9	DDI, EM
CE60/1	F5L914	82,6@2000	55	30,5	233,8@1500	58	24,1	DDI, EM
CE56	F5L914	77,2@2000	52	28,8	227,1@1500	56	23,3	DDI, EM
DE58,5	F5L914	80@1800	60	29,9	FIXED	0	0	DDI, EM
DE59,5	F5L914	81,5@1846	60	30,7	FIXED	0	0	DDI, EM
DE62	F5L914	85,2@2000	59	32,7	FIXED	0	0	DDI, EM
DE65	F5L914	89,9@2200	55	33,6	FIXED	0	0	DDI, EM
DE67	F5L914	93,4@2400	55	36,6	FIXED	0	0	DDI, EM
CE72	F6L914	99,2@2150	55	39,4	276,5@1500	58	28,9	DDI, EM
CE72/1	F6L914	98,6@2000	55	36,6	280,2@1500	59	29,4	DDI, EM
CE68	F6L914	93,3@2000	53	35,3	272,8@1500	57	28,4	DDI, EM
DE70,5	F6L914	96,1@1800	60	35,9	FIXED	0	0	DDI, EM

Engine Model Summary Form

Manufacturer: **Deutz AG**
 Engine category: **Nonroad CI**
 EPA Engine Family: **7DZXL06.5042 37-75kW**
 Mfr Family Name: **F6L914**
 Process Code: **New Submission**

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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
CE41T	F3L914	57,5@2200	60	21,9	151,9@1550	66	17	DDI, EM
CE52T	F4L914	71,9@2200	57	27,8	198,4@1700	63	23,7	DDI, EM
CE57T	F4L914	78,6@2200	63	30,7	205@1700	69	26	DDI, EM
CE38T	F3L914	53,5@2200	55	20,1	152,6@1550	66	17	DDI, EM
CE59T	F4L914	82,6@2400	63	33,5	207,4@1700	68	25,6	DDI, EM
CE37T	F3L914	52,1@2200	52	19	152,6@1550	66	17	DDI, EM
CE40T	F3L914	56,4@2300	61	23,3	155,9@1600	66	17,5	DDI, EM
CE44T	F3L914	62,2@2400	60	23,9	156,5@1750	69	20,1	DDI, EM
CE44	F3L914	61,9@2500	61	25,4	148,9@1500	65	16,2	DDI, EM
CE42	F3L914	59,2@2500	59	24,5	145,2@1500	64	15,9	DDI, EM
CE41	F3L914	57,2@2300	61	23,3	149,7@1500	65	16,2	DDI, EM
CE39	F3L914	54,5@2300	58	22,2	141,6@1500	63	15,7	DDI, EM
CE37	F3L914	51,8@2300	56	21,4	137,9@1500	61	15,2	DDI, EM
CE39/1	F3L914	54,1@2150	61	21,8	143,8@1500	64	15,9	DDI, EM
CE37/1	F3L914	51,4@2150	58	20,7	141,6@1500	63	15,7	DDI, EM
CE37/2	F3L914	51@2000	60	19,9	143,8@1500	64	15,9	DDI, EM
DE36	F3L914	49,3@1800	62	18,5	FIXED	0	0	DDI, EM
DE37	F3L914	51@2000	60	19,9	FIXED	0	0	DDI, EM
DE38,5	F3L914	53,6@2200	55	20,1	FIXED	0	0	DDI, EM
DE40	F3L914	56,3@2400	55	21,9	FIXED	0	0	DDI, EM
CE59	F4L914	82,4@2500	61	33,8	199,1@1500	65	21,6	DDI, EM
CE56	F4L914	78,4@2500	59	32,7	195,4@1500	64	21,3	DDI, EM
CE56/1	F4L914	77,6@2300	61	31,1	199,1@1500	65	21,6	DDI, EM
CE53	F4L914	73,6@2300	59	30,1	191,7@1500	63	20,9	DDI, EM
CE50	F4L914	69,5@2300	56	28,6	188@1500	63	20,9	DDI, EM
CE53/1	F4L914	73,2@2150	61	29,1	195,4@1500	64	21,3	DDI, EM

EPA Engine Family: 7DZX106.5042

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
DE72	F6L914	98,2@1846	60	36,9	FIXED	0	0	DDI, EM
CE59X	F4L914	82,6@2400	61	32,5	210,9@1700	72	27,1	DDI, EM
CE43	F4L914	58,8@1800	58	23,1	184,3@1500	62	20,6	DDI, EM
CE41A	F3L914	57,2@2300	59	23,3	149,7@1500	60	16,2	DDI, EM
CE39A	F3L914	54,5@2300	56	22,2	141,6@1500	57	15,7	DDI, EM
CE56B	F4L914	77,6@2300	61,5	31,1	199,1@1500	64	21,6	DDI, EM
CE53A	F4L914	73,6@2300	57	30,1	191,7@1500	56	20,9	DDI, EM
CE50A	F4L914	69,5@2300	53	28,6	188@1500	56	20,9	DDI, EM
CE48B	F4L914	66,1@2000	55	25,7	188@1500	56	20,9	DDI, EM

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