

	DEUTZ AG	<b>EXECUTIVE ORDER U-R-013-0169</b> 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 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)
2006	6DZXL06.1028	4.038, 6.057	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Smoke Puff Limiter, Turbocharger, Charge Air Cooler			Loader, Compressor, Other 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):

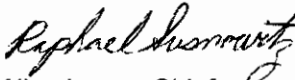
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
75 ≤ kW < 130	Tier 2	STD	N/A	N/A	6.6	5.0	0.30	20	15	50
		CERT	-	-	6.0	0.6	0.06	3	1	6

**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 30<sup>th</sup> day of December 2005.

  
 for Allen Lyons, Chief  
 Mobile Source Operations Division



# Engine Model Summary Template

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4-6-013-0169

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Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesels 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 J1933
6DZXL06.1028	CE124	BF6M2012C	166.2@2100	83	58	671@1400	95	47.4	DDI, TC, CAC, SP
6DZXL06.1028	CE125	BF6M2012C	167.6@2300	79	60.5	633@1400	89	44.4	DDI, TC, CAC,
6DZXL06.1028	CE127	BF6M2012C	170.3@2000	89	59.3	705@1400	100	49.9	DDI, TC, CAC,
6DZXL06.1028	CE128	BF6M2012C	171.6@2400	79	63.1	633@1400	89	44.4	DDI, TC, CAC,
6DZXL06.1028	CE128/1	BF6M2012C	171.6@2200	83	60.8	671@1400	95	47.4	DDI, TC, CAC,
6DZXL06.1028	CE103	TAD420VE	138.1@2500	95	52.7	493@1400	106	35.3	DDI, TC, CAC,
6DZXL06.1028	CE83/1	TAD420VE	111.3@2100	85	39.6	445@1400	96	31.9	DDI, TC, CAC,
6DZXL06.1028	CE88/1	TAD420VE	118@2300	84	42.9	445@1400	96	31.9	DDI, TC, CAC,
6DZXL06.1028	CE92	TAD420VE	123.3@2100	94	43.8	493@1400	106	35.3	DDI, TC, CAC,
6DZXL06.1028	CE93	TAD420VE	124.7@2500	85	47.2	445@1400	96	31.9	DDI, TC, CAC,
6DZXL06.1028	CE98/1	TAD420VE	131.4@2300	94	48	493@1400	106	35.3	DDI, TC, CAC,
6DZXL06.1028	CE121	TAD620VE	162.2@2100	81	56.6	631@1400	92	45.9	DDI, TC, CAC,
6DZXL06.1028	CE85	TAD620VE	113.9@2300	55	42.1	500@1400	73	36.4	DDI, TC, CAC,
6DZXL06.1028	CE103	BF6M2012C	138.1@2300	66	50.5	550@1400	78	38.9	DDI, TC, CAC,
6DZXL06.1028	CE79T	BF6M2012C	117@2300	61	46.7	437@1200	65	30.3	DDI, TC, CAC,
6DZXL06.1028	CE87T	BF6M2012C	128.8@2300	65	49.8	490@1200	74	36.9	DDI, TC, CAC,
6DZXL06.1028	CE94T	BF6M2012C	139@2300	72	55.1	530@1000	80	34.6	DDI, TC, CAC,
6DZXL06.1028	CE102T	BF6M2012C	153.5@2300	77	59	570@1200	86	40.1	DDI, TC, CAC,
6DZXL06.1028	CE74T	BF4M2012C	109.6@2300	65	33.2	413@1300	93	32	DDI, TC, CAC,
6DZXL06.1028	CE61T	BF4M2012C	67-87.1@2300	61	31.1	425@1500	69	22.9	DDI, TC, CAC,
6DZXL06.1028	CE69T	BF4M2012C	74-99.2@2300	75	38.3	431@1500	100	33.3	DDI, TC, CAC,
6DZXL06.1028	CE78T	BF4M2012C	111.3@2300	80	40.8	479@1500	106	35.3	DDI, TC, CAC,
6DZXL06.1028	CE103/1	BF6M2012C	138.1@2100	73	51	550@1400	78	38.9	DDI, TC, CAC,
6DZXL06.1028	CE110	BF6M2012C	147.5@2300	76	58.2	570@1400	84	41.9	DDI, TC, CAC,
6DZXL06.1028	CE100	BF6M2012C	134.1@2300	65	49.8	530@1400	78	38.9	DDI, TC, CAC,
6DZXL06.1028	CE90	BF6M2012C	120.6@2300	61	46.7	460@1400	77	38.4	DDI, TC, CAC,
6DZXL06.1028	CE80	BF6M2012C	107.2@2300	55	42.1	430@1400	67	33.4	DDI, TC, CAC,
6DZXL06.1028	CE110/1	BF6M2012C	147.5@2200	77	56.4	570@1400	84	41.9	DDI, TC, CAC,

# Engine Model Summary Template

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Engine Family	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 J193c
6DZXL06.1028	CE100/1	BF6M2012C	134.1@2200	69	50.5	530@1400	78	38.9	DDI, TC, CAC, SP
6DZXL06.1028	CE90/1	BF6M2012C	120.6@2200	63	46.1	460@1400	77	38.4	DDI, TC, CAC,
6DZXL06.1028	CE80/1	BF6M2012C	107.2@2200	56	41	430@1400	67	33.4	DDI, TC, CAC,
6DZXL06.1028	CE110/2	BF6M2012C	147.5@2100	78	54.5	570@1400	84	41.9	DDI, TC, CAC,
6DZXL06.1028	CE100/2	BF6M2012C	134.1@2100	72	50.3	530@1400	77	38.4	DDI, TC, CAC,
6DZXL06.1028	CE90/2	BF6M2012C	120.6@2100	65	45.4	460@1400	67	33.4	DDI, TC, CAC,
6DZXL06.1028	CE80/2	BF6M2012C	107.2@2100	57	39.8	430@1400	63	31.4	DDI, TC, CAC,
6DZXL06.1028	CE110/3	BF6M2012C	147.5@2000	81	53.9	570@1400	84	41.9	DDI, TC, CAC,
6DZXL06.1028	CE100/3	BF6M2012C	134.1@2000	75	49.9	530@1400	77	38.4	DDI, TC, CAC,
6DZXL06.1028	CE90/3	BF6M2012C	120.6@2000	67	44.6	460@1400	67	33.4	DDI, TC, CAC,
6DZXL06.1028	CE80/3	BF6M2012C	107.2@2000	59	39.3	430@1400	63	31.4	DDI, TC, CAC,
6DZXL06.1028	CE100/4	BF6M2012C	134.1@1900	78	49.3	570@1400	84	41.9	DDI, TC, CAC,
6DZXL06.1028	CE90/4	BF6M2012C	120.6@1900	70	44.3	530@1400	77	38.4	DDI, TC, CAC,
6DZXL06.1028	CE80/4	BF6M2012C	107.2@1900	60	37.9	460@1400	67	33.4	DDI, TC, CAC,
6DZXL06.1028	CE90/5	BF6M2012C	120.6@1800	73	43.7	530@1400	77	38.4	DDI, TC, CAC,
6DZXL06.1028	CE80/5	BF6M2012C	107.2@1800	65	38.9	460@1400	67	33.4	DDI, TC, CAC,
6DZXL06.1028	CE95	D4DRBE2	127.3@2200	94	45.9	493@1400	106	35.3	DDI, TC, CAC,
6DZXL06.1028	CE121	D6DRAE2	162.2@2200	81.5	59.7	631@1400	94	46.9	DDI, TC, CAC,
6DZXL06.1028	CE82	D4DDCE2	109.9@2100	85	39.6	445@1400	96	31.9	DDI, TC, CAC,
6DZXL06.1028	CE90	D4DDDE2	120.6@2200	89	43.5	469@1400	101	33.6	DDI, TC, CAC,
6DZXL06.1028	CE66T	BF4M2012C	97.8@2300	74	37.8	384@1200	89	27.6	DDI, TC, CAC,
6DZXL06.1028	CE93/2	BF4M2012C	124.7@2300	89	45.4	469@1400	101	33.6	DDI, TC, CAC,
6DZXL06.1028	CE76T	BF6M2012C	111.9@2300	58	44.4	448@1400	68	35.1	DDI, TC, CAC,
6DZXL06.1028	DE88	BF4M2012C	118@1800	103	41.1	n.a.@n.a.	0	0	DDI, TC, CAC,
6DZXL06.1028	DE83	BF4M2012C	111.3@1800	97	38.7	n.a.@n.a.	0	0	DDI, TC, CAC,
6DZXL06.1028	DE88/1	BF4M2012C	118@1846	101	41.4	n.a.@n.a.	0	0	DDI, TC, CAC,
6DZXL06.1028	DE90	BF4M2012C	120.6@2000	96	42.6	n.a.@n.a.	0	0	DDI, TC, CAC,
6DZXL06.1028	DE102	BF4M2012C	136.7@2400	96	51.1	n.a.@n.a.	0	0	DDI, TC, CAC,

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# Engine Model Summary Template

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Engine Family	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 J193C
6DZXL06.1028	CE110T	BF6M2012C	163.3@2350	80	62.6	610@1300	91	45.4	DDI, TC, CAC, SP
6DZXL06.1028	CE129.5	BF6M2012C	173.6@2500	77	64.1	633@1400	89	44.4	DDI, TC, CAC,
6DZXL06.1028	CE129.3	BF6M2012C	173.6@2300	82	62.8	671@1400	95	47.4	DDI, TC, CAC,
6DZXL06.1028	CE110T1	BF6M2012C	158.6@2300	79	60.5	610@1300	91	45.4	DDI, TC, CAC,
6DZXL06.1028	CE121/1	D6DRAE2	162.2@2200	81.5	59.7	631@1400	94	46.9	DDI, TC, CAC,
6DZXL06.1028	CE93T	BF4M2012C	124.7@2300	102	52.1	476.7@1400	0	0	DDI, TC, CAC,
6DZXL06.1028	CE129.9	BF6M2012C	147.1@2100	0	0	705@1400	100	49.9	DDI, TC, CAC,