

 <b>AIR RESOURCES BOARD</b>	DEUTZ AG	<b>EXECUTIVE ORDER U-R-013-0185</b>
		New Off-Road Compression-Ignition Engines

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	6DZXL07.1051	7.1	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust -Gas Recirculation			Loader	

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
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	.20	20	15	50
		CERT	-	-	3.5	0.5	.10	3	1	7

**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 19<sup>TH</sup> day of January 2006.

  
 Allen Lyons, Chief  
 Mobile Source Operations Division

# Engine Model Summary Template

Attachment 1 of 2  
U-R-013-0185

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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.E Devic
6DZXL07.1051	C3U1200	TCD2013L062	268.2@ 2300	135	103.5	774.4@1500	161	80.5	997.7c 66k
6DZXL07.1051	C3U1190	TCD2013L062	254.8@ 2300	128	98.1	737.6@1500	154	77.0	
6DZXL07.1051	C3U1181	TCD2013L062	242.7@ 2300	123	94.3	702.2@1500	145	72.5	
6DZXL07.1051	C3U1173	TCD2013L062	232.0@ 2300	118	90.5	669.0@1500	139	69.5	
6DZXL07.1051	C3U1160	TCD2013L062	214.6@ 2300	111	85.1	649.1@1500	132	66.0	
6DZXL07.1051	C3U1197	TCD2013L062	264.2@ 2200	138	101.2	774.4@1500	161	80.5	
6DZXL07.1051	C3U1188	TCD2013L062	252.1@ 2200	131	96.1	737.6@1500	154	77.0	
6DZXL07.1051	C3U1179	TCD2013L062	240.0@ 2200	125	91.7	702.2@1500	145	72.5	
6DZXL07.1051	C3U1170	TCD2013L062	228.0@ 2200	119	87.3	669.0@1500	139	69.5	
6DZXL07.1051	C3U1156	TCD2013L062	209.2@ 2200	111	81.4	649.1@1500	132	66.0	
6DZXL07.1051	C3U1194	TCD2013L062	260.2@ 2100	142	99.4	774.4@1500	161	80.5	
6DZXL07.1051	C3U1185	TCD2013L062	248.1@ 2100	135	94.5	737.6@1500	153	76.5	
6DZXL07.1051	C3U1176	TCD2013L062	236.0@ 2100	129	90.3	702.2@1500	146	73.0	
6DZXL07.1051	C3U1168	TCD2013L062	225.3@ 2100	124	86.8	669.0@1500	140	70.0	
6DZXL07.1051	C3U1152	TCD2013L062	203.8@ 2100	113	79.1	649.1@1500	131	65.5	
6DZXL07.1051	C3U1191	TCD2013L062	256.1@ 2000	146	97.3	774.4@1500	161	80.5	
6DZXL07.1051	C3U1182	TCD2013L062	244.1@ 2000	139	92.7	737.6@1500	153	76.5	
6DZXL07.1051	C3U1173A	TCD2013L062	232.0@ 2200	133	88.7	702.2@1500	146	73.0	
6DZXL07.1051	C3U1165	TCD2013L062	221.3@ 2000	125	83.3	669.0@1500	140	70.0	
6DZXL07.1051	C3U1148	TCD2013L062	198.5@ 2000	113	75.3	649.1@1500	131	65.5	
6DZXL07.1051	C3U1185A	TCD2013L062	248.1@ 1900	147	93.1	774.4@1500	161	80.5	
6DZXL07.1051	C3U1176A	TCD2013L062	236.0@ 1900	140	88.7	737.6@1500	150	75.0	
6DZXL07.1051	C3U1166	TCD2013L062	222.6@ 1900	132	83.6	702.2@1500	143	71.5	
6DZXL07.1051	C3U1157	TCD2013L062	210.5@ 1900	125	79.2	669.0@1500	137	68.5	
6DZXL07.1051	C3U1144	TCD2013L062	193.1@ 1900	115	72.8	649.1@1500	129	64.5	
6DZXL07.1051	C3U1180	TCD2013L062	241.4@ 1800	155	93.0	774.4@1500	161	80.5	
6DZXL07.1051	C3U1170A	TCD2013L062	228.0@ 1800	143	85.8	737.6@1500	150	75.0	
6DZXL07.1051	C3U1160A	TCD2013L062	214.6@ 1800	135	81.0	702.2@1500	143	71.5	

# 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.E Device
6DZXL07.1051	C3U1150	TCD2013L062	201.2@ 1800	126	75.6	669.0@1500	137	68.5	DDI, F44 TG, LAC
6DZXL07.1051	C3U1140	TCD2013L062	187.7@ 1800	118	70.8	649.1@1500	129	64.5	
6DZXL07.1051	C3U1186	TCD2013L062	249.4@ 2000	142	94.7	737.6@1500	153	76.5	