



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)
2009	9DZXL07.1051	7.145	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter, Exhaust Gas Recirculation			Loaders, Tractor, 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
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	0.5	0.10	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 29 day of January 2009.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Deutz AG
Nonroad CI

Attachment

P. 1 of 2

U-R-013-0295

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:		5.Fuel Rate:		7.Fuel Rate:		8.Fuel Rate:		9.Emission Control Device Per SAE J1939
				mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	mm/stroke @ peak HP (for diesels only)	k torque	mm/stroke @ peak torque	mm/stroke @ peak torque	mm/stroke @ peak torque	mm/stroke @ peak torque	
9DZXL07.1051	C3U1200	TCD2013L06 ²⁰⁰	268.2@2300	135.0	103.5	774.4@1500	161.0	80.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1190	TCD2013L06	254.7@2300	128.0	98.1	737.5@1500	154.0	76.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1181	TCD2013L06	242.7@2300	123.0	94.3	702.1@1500	145.0	72.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1173	TCD2013L06	231.9@2300	118.0	90.5	668.9@1500	139.0	69.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1160	TCD2013L06	214.5@2300	111.0	85.1	649.0@1500	132.0	65.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1197	TCD2013L06	264.1@2200	138.0	101.2	774.4@1500	161.0	80.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1188	TCD2013L06	252.1@2200	131.0	96.1	737.5@1500	154.0	76.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1179	TCD2013L06	240.0@2200	125.0	91.7	702.1@1500	145.0	72.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1170	TCD2013L06	227.9@2200	119.0	87.3	668.9@1500	139.0	69.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1156	TCD2013L06	209.1@2200	111.0	81.4	649.0@1500	132.0	65.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1194	TCD2013L06	260.1@2100	142.0	99.4	774.4@1500	161.0	80.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1185	TCD2013L06	248.0@2100	135.0	94.5	737.5@1500	153.0	76.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1176	TCD2013L06	236.0@2100	129.0	90.3	702.1@1500	146.0	72.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1168	TCD2013L06	225.2@2100	124.0	86.8	668.9@1500	140.0	69.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1152	TCD2013L06	203.8@2100	113.0	79.1	649.0@1500	131.0	65.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1191	TCD2013L06	256.1@2000	146.0	97.3	774.4@1500	161.0	80.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1182	TCD2013L06	244.0@2000	139.0	92.7	737.5@1500	153.0	76.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1173A	TCD2013L06	231.9@2000	133.0	88.7	702.1@1500	146.0	72.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1165	TCD2013L06	221.2@2000	125.0	83.3	668.9@1500	140.0	69.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1148	TCD2013L06	198.4@2000	113.0	75.3	649.0@1500	131.0	65.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1185A	TCD2013L06	248.0@1900	147.0	93.1	774.4@1500	161.0	80.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1176A	TCD2013L06	236.0@1900	140.0	88.7	737.5@1500	150.0	74.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1166	TCD2013L06	222.6@1900	132.0	83.6	702.1@1500	143.0	71.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1157	TCD2013L06	210.5@1900	125.0	79.2	668.9@1500	137.0	68.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1144	TCD2013L06	193.1@1900	115.0	72.8	649.0@1500	129.0	64.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3U1180	TCD2013L06	241.3@1800	155.0	93.0	774.4@1500	161.0	80.4	DDI, TC, CAC, ECM, SPL, EGR			

Deutz AG

Nonroad CI

Engine Model Summary Template

Attachment P. 2 of 2

U-R-013-0295

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:		5.Fuel Rate:		7.Fuel Rate:		8.Fuel Rate:		9.Emission Control Device Per SAE J1930
				mm/stroke @ (for diesel only)	peak HP (for diesel only)	mm/stroke @ (for diesel only)	peak HP	mm/stroke @ k torque	peak HP	mm/stroke @ k torque	mm/stroke @ peak torque	
9DZXL07.1051	C3UI170A	TCD2013L06	227.9@1800	143.0	85.8	737.5@1500	150.0	74.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI160A	TCD2013L06	214.5@1800	135.0	81.0	702.1@1500	143.0	71.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI150	TCD2013L06	201.1@1800	126.0	75.6	668.9@1500	137.0	68.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI140	TCD2013L06 ¹⁴⁰	187.7@1800	118.0	70.8	649.0@1500	129.0	64.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI186	TCD2013L06	249.4@2000	142.0	94.7	737.5@1500	153.0	76.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI157	TCD2013L06	210.0@2350	110.5	86.6	616.6@1600	125.0	66.6	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI173B	TCD2013L06	231.9@2000	133.0	88.7	702.1@1500	146.0	72.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI148A	TCD2013L06	198.4@2000	113.0	75.3	649.0@1500	131.0	65.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI195	TCD2013L06	261.4@2300	132.0	104.3	774.4@1500	161.0	82.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI160	TCD2013L06	214.5@2300	111.0	86.2	654.2@1600	132.0	73.3	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI182	TCD2013L06	244.0@2300	123.0	96.6	746.4@1600	156.0	83.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI168	TCD2013L06	225.2@2100	124.5	87.1	767.0@1500	164.5	82.2	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI176	TCD2013L06	236.0@2100	129.0	90.3	702.1@1500	146.0	72.9	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI166A	TCD2013L06	222.6@1900	132.0	83.6	702.1@1500	143.0	71.4	DDI, TC, CAC, ECM, SPL, EGR			
9DZXL07.1051	C3UI173C	TCD2013L06	231.9@2300	118.0	90.5	668.9@1500	139.0	69.4	DDI, TC, CAC, ECM, SPL, EGR			