

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0253 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 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)
2008	8DZXL07.1051	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			Loader, 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):

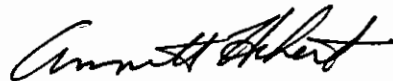
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	0.5	0.10	3	1	7

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 20 day of December 2007.



Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

U-12-013-0253

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Manufacturer: DEUTZ AG
Engine category: Nonroad Ci
EPA Engine Family: 8DZXL07.1051
Mfr Family Name: TCD2013 L06 2V
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: mm/stroke @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@pea k torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
C3U1200	TCD2013L06 200	268,2@2300	135	268,2	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3U190	TCD2013L06	254,7@2300	128	254,7	737,5@1500	154	76,9	DDI, TC, CAC, ECM, SPL
C3U181	TCD2013L06	242,7@2300	123	242,7	702,1@1500	145	72,4	DDI, TC, CAC, ECM, SPL
C3U173	TCD2013L06	231,9@2300	118	231,9	668,9@1500	139	69,4	DDI, TC, CAC, ECM, SPL
C3U160	TCD2013L06	214,5@2300	111	214,5	649@1500	132	65,9	DDI, TC, CAC, ECM, SPL
C3U197	TCD2013L06	264,1@2200	138	264,1	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3U188	TCD2013L06	252,1@2200	131	252,1	737,5@1500	154	76,9	DDI, TC, CAC, ECM, SPL
C3U179	TCD2013L06	240@2200	125	240	702,1@1500	145	72,4	DDI, TC, CAC, ECM, SPL
C3U170	TCD2013L06	227,9@2200	119	227,9	668,9@1500	139	69,4	DDI, TC, CAC, ECM, SPL
C3U156	TCD2013L06	209,1@2200	111	209,1	649@1500	132	65,9	DDI, TC, CAC, ECM, SPL
C3U194	TCD2013L06	260,1@2100	142	260,1	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3U185	TCD2013L06	248@2100	135	248	737,5@1500	153	76,4	DDI, TC, CAC, ECM, SPL
C3U176	TCD2013L06	236@2100	129	236	702,1@1500	146	72,9	DDI, TC, CAC, ECM, SPL
C3U168	TCD2013L06	225,2@2100	124	225,2	668,9@1500	140	69,9	DDI, TC, CAC, ECM, SPL
C3U152	TCD2013L06	203,8@2100	113	203,8	649@1500	131	65,4	DDI, TC, CAC, ECM, SPL
C3U191	TCD2013L06	256,1@2000	146	256,1	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3U182	TCD2013L06	244@2000	139	244	737,5@1500	153	76,4	DDI, TC, CAC, ECM, SPL
C3U173A	TCD2013L06	231,9@2000	133	231,9	702,1@1500	146	72,9	DDI, TC, CAC, ECM, SPL
C3U165	TCD2013L06	221,2@2000	125	221,2	668,9@1500	140	69,9	DDI, TC, CAC, ECM, SPL
C3U148	TCD2013L06	198,4@2000	113	198,4	649@1500	131	65,4	DDI, TC, CAC, ECM, SPL
C3U185A	TCD2013L06	248@1900	147	248	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3U176A	TCD2013L06	236@1900	140	236	737,5@1500	150	74,9	DDI, TC, CAC, ECM, SPL
C3U166	TCD2013L06	222,6@1900	132	222,6	702,1@1500	143	71,4	DDI, TC, CAC, ECM, SPL
C3U157	TCD2013L06	210,5@1900	125	210,5	668,9@1500	137	68,4	DDI, TC, CAC, ECM, SPL
C3U144	TCD2013L06	193,1@1900	115	193,1	649@1500	129	64,4	DDI, TC, CAC, ECM, SPL
C3U180	TCD2013L06	241,3@1800	155	241,3	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL

Manufacturer: DEUTZ AG
 Engine category: Nonroad CI
 EPA Engine Family: 8DZX107.1051
 Mfr Family Name: TCD2013 L06 2V
 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 k torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
C3UI170A	TCD2013L06	227,9@1800	143	227,9	737,5@1500	150	74,9	DDI, TC, CAC, ECM, SPL EGR
C3UI160A	TCD2013L06	214,5@1800	135	214,5	702,1@1500	143	71,4	DDI, TC, CAC, ECM, SPL
C3UI150	TCD2013L06	201,1@1800	126	201,1	668,9@1500	137	68,4	DDI, TC, CAC, ECM, SPL
C3UI140	TCD2013L06	187,7@1800	118	187,7	649@1500	129	64,4	DDI, TC, CAC, ECM, SPL
C3UI186	TCD2013L06	249,4@2000	142	249,4	737,5@1500	153	76,4	DDI, TC, CAC, ECM, SPL
C3UT157	TCD2013L06	210@2350	0	210	616,6@1600	125	66,6	DDI, TC, CAC, ECM, SPL
C3UI173B	TCD2013L06	231,9@2000	133	231,9	702,1@1500	146	72,9	DDI, TC, CAC, ECM, SPL
C3UI148A	TCD2013L06	198,4@2000	113	198,4	649@1500	131	65,4	DDI, TC, CAC, ECM, SPL
C3UT195	TCD2013L06	261,4@2300	132	261,4	774,4@1500	161	80,4	DDI, TC, CAC, ECM, SPL
C3UT160	TCD2013L06	214,5@2300	111	214,5	654,2@1600	132	70,3	DDI, TC, CAC, ECM, SPL
C3UT182	TCD2013L06	244@2300	123	244	746,4@1600	156	83,1	DDI, TC, CAC, ECM, SPL
C3UT176	TCD2013L06	236@2100	0	236	774,4@1600	161	85,8	DDI, TC, CAC, ECM, SPL
C3UI166A	TCD2013L06	222,6@1900	132	222,6	702,1@1500	143	71,4	DDI, TC, CAC, ECM, SPL