EXECUTIVE ORDER U-R-013-0241 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	8DZXL04.8064	4.764	Diesel						
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION						
Direct Dies Electronic	sel Injection, Turbocharg Control Module, Smoke Gas Recirculati		Loader, Tractor, Dozer, Pump, Compressor, Other Indus 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	EMISSION			E	XHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT			3.8	0.6	0.08	10	0	19

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

Annette Hebert, Chief

Mobile Source Operations Division

day of January 2008.

DEUTZ AG Janufacturer:

Nonroad Cl ingine category:

PA Engine Family: 8DZXL04.8064

ontrol E J1930	ECM, SPL, E	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	∃CM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	≣CM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	ECM, SPL	
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8.Fuel Rate: (lbs/hr)@peak torque	55,8	55,8	55,8	58,3	53,3	53,3	53,3	53,3	51,5	51,5	515	51,5	50,1	50,1	50,1	50,1	48,3	48,3	48,3	48,3	47,2	45,1	
7.Fuel Rate: mm/stroke@pea k torque	157	157	157	164	150	150	150	150	145	145	145	145	141	141	141	141	136	136	136	136	133	127	-
6.Torque @ RPM (SEA Gross)	494,1@1600	494,1@1600	494,1@1600	494,1@1600	474,2@1600	474,2@1600	474,2@1600	474,2@1600	455,8@1600	455,8@1600	455,8@1600	455,8@1600	437,3@1600	437,3@1600	437,3@1600	437,3@1600	198,4@1600	419,6@1600	419,6@1600	419,6@1600	405,6@1600	398,2@1600	
5.Fuel Rate: P (lbs/hr) @ peak HP (for diesels only)	6.99	6.99	66.2	9.99	62.9	65.5	64.3	62.2	63.3	62.5	62.5	60.4	59.7	58.6	58.3	56.8	56.2	55.2	. 55	53.7	51.1	49.3	
4.Fuel Rate: m/stroke @ peak HI (for diesel only)	131	137	142	150	129	134	138	140	124	128	134	136	117	120	125	128	110	113	118	121	115	11	
3.ВНР@RPM п (SAE Gross)	172,9@2300	172,9@2200	172,9@2100	171,6@2000	168,9@2300	167,6@2200	166,2@2100	163,6@2000	160,9@2300	159,5@2200	158,2@2100	155,5@2000	151,5@2300	150,1@2200	148,8@2100	147,5@2000	140,8@2300	139,4@2200	138,1@2100	136,7@2000	127,3@2000	122@2000	The second secon
2.Engine Model	TCD2013L04 (36	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04	TCD2013L04 41	THE RESERVE THE RESERVE THE RESERVE THE PROPERTY OF THE PROPER
1.Engine Code	C3UI129	C3UI129A	C3UI129B	C3UI128	C3UI126	C3U1125	C3UI124	C3UI122	C3UI120	C3U1119	C3UI118	C3U1116	C3UI113	C3UI112	C3UI111	C3U1110	C3UI105	C3UI104	C3UI103	C3UI102	C3UI95	C3UI91	
	4. Fuel Rate: 5. Fuel Rate: 7. Fuel Rate: 7	4. Fuel Rate:5. Fuel Rate:5. Fuel Rate:7. Fuel Rate:8. Fuel Rate:8. Fuel Rate:2. Engine Model(SAE Gross)(for diesels only)(for diesels only)(for diesels only)(SEA Gross)(SEA Gross)15755,8DDI, TC, CAC, ECM, SPL,	4. Fuel Rate: 4. Fuel Rate: 5. Fuel Rate: 5. Fuel Rate: 7. Fuel Rate: 7. Fuel Rate: 8. Fuel Rate: 9. Emission Control 2. Engine Model (SAE Gross) (for diesel only) (for diesels only) (for diesels only) (SEA Gross) 494,1@1600 157 55,8 DDI, TC, CAC, ECM, SPL TCD2013L04 172,9@2200 137 66.9 494,1@1600 157 55,8 DDI, TC, CAC, ECM, SPL	2. Engine Model (SAE Gross) (for diesel only) (for diesels only) (for diesels only) (for diesels only) (5.9 494,1@1600 157 55,8 DDI, TC, CAC, ECM, SPL TCD2013L04 172,9@2100 142 66.2 494,1@1600 157 55,8 DDI, TC, CAC, ECM, SPL TCD2013L04 172,9@2100 142 66.2 494,1@1600 157 55,8 DDI, TC, CAC, ECM, SPL	2. 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