



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)
2007	7DZXL04.8071	4.764	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation, Smoke Puff Limiter			Loaders, Tractor, Dozer, Pump, Compressor, Other OEM Products	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NO<sub>x</sub>), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO<sub>x</sub>), 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	NO <sub>x</sub>	NMHC+NO <sub>x</sub>	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		FEL	-	-	4.0	-	0.30	-	-	-
		CERT	-	-	3.7	1.7	0.18	17	4	24

**BE IT FURTHER RESOLVED:** That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

**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 27<sup>th</sup> day of February 2007.

Annette Hebert, Chief  
Mobile Source Operations Division

# Engine Model Summary Form

**Manufacturer:** DEUTZ AG  
**Engine category:** Nonroad CI  
**EPA Engine Family:** 7DZXL04.8071  
**Mfr Family Name:** TCD2013L042V MECH 76-130KW TIERS  
**Process Code:** New Submission

*Attachment*  
 EO # U-R-013-0208

1. Engine Code	2. Engine Model	3. BHP @ RPM (SAE Gross)	4. Fuel Rate: mm <sup>3</sup> /stroke @ peak HP (for diesel only)	5. Fuel Rate: (lb/ft <sup>3</sup> ) @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate: mm <sup>3</sup> /stroke @ peak torque	8. Fuel Rate: (lb/ft <sup>3</sup> ) @ peak torque	9. Emission Control Device Per SAE J1830
C3MI104	TCD2013L04	139.4@2200	115	56.2	416.7@1500	132	44.0	DDI, TC, CAC, <del>SCR</del> , <del>EGR</del>
C3MI93	TCD2013L04	124.7@2300	101	51.6	361.4@1500	110	36.7	DDI, TC, CAC,
C3MI99	TCD2013L04	132.7@2200	110	53.7	361.4@1500	110	36.7	DDI, TC, CAC,
C3MI87	TCD2013L04	116.6@2100	100	46.6	361.4@1500	110	36.7	DDI, TC, CAC,
C3MI88	TCD2013L04	118@2300	97	49.5	342.9@1500	105	35.0	DDI, TC, CAC,
C3MI95	TCD2013L04	127.3@2200	106	51.8	342.9@1500	105	35.0	DDI, TC, CAC,
C3MI83	TCD2013L04	111.3@2100	95	44.3	342.9@1500	105	35.0	DDI, TC, CAC,
C3MI83A	TCD2013L04	111.3@2300	91	46.5	324.5@1500	98	32.7	DDI, TC, CAC,
C3MI90	TCD2013L04	120.6@2200	100	48.8	324.5@1500	98	32.7	DDI, TC, CAC,
C3MI81	TCD2013L04	108.6@2200	90	43.9	309.7@1500	93	31.0	DDI, TC, CAC,
C3MI87	D5DCBE3	116.6@2200	97	47.4	361.4@1500	110	36.7	DDI, TC, CAC,