



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	7DZXL07.1056	7.145	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation (some models), Electronic Control Module, Smoke Puff Limiter			Loaders, Tractor, Dozer, 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 (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
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	-	-	4.0	-	0.20	-	-	-
		CERT	-	-	3.5	0.7	0.11	13	4	28


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 27th 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: 7DZXL07.1056
Mfr Family Name: TCD2013L06 4V TIER3
Process Code: New Submission

Attachment
ED#UR-013-0225

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@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
C3CT172	TCD2013L06 4V	230,6@2200	115	84,3	748,6@1450	150	72,4	DDI, TC, CAC, ECM, SPL
C3CT194	TCD2013L06 4V	260,1@2200	132	96,7	821,6@1450	168	81,1	DDI, TC, CAC, ECM, SPL
C3CT217	TCD2013L06 4V	290,9@2200	147,5	108,1	907,2@1450	184,5	89,1	DDI, TC, CAC, ECM, SPL
C3CT238	TCD2013L06 4V	319,1@2200	159,5	116,9	976,5@1450	198	95,6	DDI, TC, CAC, ECM, SPL
C3CT261	TCD2013L06 4V ^{1A}	350@2200	176	129,0	1105,6@1450	✓ 234	113,0	DDI, TC, CAC, ECM, SPL
C3CI238	TCD2013L06 4V	319,1@2200	159,5	116,9	966,9@1450	197	95,2	DDI, TC, CAC, ECM, SPL
C3CI227	TCD2013L06 4V	304,4@2200	154	112,9	921,2@1450	189	91,3	DDI, TC, CAC, ECM, SPL
C3CI216	TCD2013L06 4V	289,6@2200	147	107,7	876,9@1450	178	86,0	DDI, TC, CAC, ECM, SPL
C3CT158	TCD2013L06 4V ^{1B}	211,8@2200	109	79,9	685,9@1450	141,5	68,3	DDI, TC, CAC, ECM, SPL, EGR
C3CI253	TCD2013L06 4V	339,2@2200	172	126,1	1104,8@1450	234	113,0	DDI, TC, CAC, ECM, SPL, EGR
C3CT178	TCD2013L06 4V	239,6@2300	115	88,1	708,7@1600	139	74,1	DDI, TC, CAC, ECM, SPL, EGR
C3CT198	TCD2013L06 4V	265,5@2350	125	97,9	775,7@1500	149	74,4	DDI, TC, CAC, ECM, SPL, EGR
C3CT179	TCD2013L06 4V	239,6@2100	126,5	88,5	709,2@1600	142,5	75,9	DDI, TC, CAC, ECM, SPL, EGR
C3CT191	TCD2013L06 4V	256,1@2100	135	94,4	793,6@1600	155	82,6	DDI, TC, CAC, ECM, SPL, EGR