

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0257 New Off-Road Compression-Ignition Engines
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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	8DZXL15.9065	11.906, 15.874	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, 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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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):

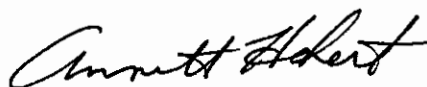
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
450 ≤ kW < 560	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.9	0.6	0.05	5	1	8

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-2-013-0257

Manufacturer: **DEUTZ AG**
 Engine category: **Nonroad CI**
 EPA Engine Family: **8DZXL15.9065**
 Mfr Family Name: **TCD2015 TIER3**
 Process Code: **New Submission**

Attachment p. 1 of 2

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: HP (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
C3UI360	TCD2015V06	482,7@2100	264	482,7	1534,1@1300	300	129,9	DDI, TC, CAC, ECM, SPL,EGR
C3UI360A	TCD2015V06	482,7@2000	271	482,7	1534,1@1300	300	129,9	DDI, TC, CAC, ECM, SPL,EGR
C3UI360B	TCD2015V06	482,7@1900	280	482,7	1534,1@1300	300	129,9	DDI, TC, CAC, ECM, SPL,EGR
C3UI350	TCD2015V06	469,3@1800	284	469,3	1534,1@1300	300	129,9	DDI, TC, CAC, ECM, SPL,EGR
C3UI330	TCD2015V06	442,5@2100	246	442,5	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI330A	TCD2015V06	442,5@2000	252	442,5	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI330B	TCD2015V06	442,5@1900	260	442,5	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI330C	TCD2015V06	442,5@1800	269	442,5	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI300	TCD2015V06	402,3@2100	227	402,3	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI300A	TCD2015V06	402,3@2000	234	402,3	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI300B	TCD2015V06	402,3@1900	242	402,3	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI300C	TCD2015V06	402,3@1800	250	402,3	1475,1@1300	290	125,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI273	TCD2015V06	366@2100	199	366	1327,6@1300	261	113	DDI, TC, CAC, ECM, SPL,EGR
C3UI273A	TCD2015V06	366@2000	215	366	1327,6@1300	261	113	DDI, TC, CAC, ECM, SPL,EGR
C3UI273B	TCD2015V06	366@1900	224	366	1327,6@1300	261	113	DDI, TC, CAC, ECM, SPL,EGR
C3UI273C	TCD2015V06	366@1800	234	366	1327,6@1300	261	113	DDI, TC, CAC, ECM, SPL,EGR
C3UI240	TCD2015V06	321,8@2100	189	321,8	1106,3@1300	228	98,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI240A	TCD2015V06	321,8@2000	193	321,8	1106,3@1300	228	98,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI240B	TCD2015V06	321,8@1900	199	321,8	1106,3@1300	228	98,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI240C	TCD2015V06	321,8@1800	209	321,8	1106,3@1300	228	98,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI500	TCD2015V08	670,5@2100	293	670,5	2131,5@1400	325	202,2	DDI, TC, CAC, ECM, SPL,EGR
C3UI500A	TCD2015V08	670,5@2000	300	670,5	2131,5@1400	325	202,2	DDI, TC, CAC, ECM, SPL,EGR
C3UI500B	TCD2015V08	670,5@1900	315	670,5	2131,5@1400	325	202,2	DDI, TC, CAC, ECM, SPL,EGR
C3UI490	TCD2015V08	657@1800	317	657	2131,5@1400	325	202,2	DDI, TC, CAC, ECM, SPL,EGR
C3UI480	TCD2015V08	643,6@2100	280	643,6	2065,1@1400	315	195,9	DDI, TC, CAC, ECM, SPL,EGR
C3UI480A	TCD2015V08	643,6@2000	289	643,6	2065,1@1400	315	195,9	DDI, TC, CAC, ECM, SPL,EGR

ENGINE MODEL SUMMARY FORM

U-2-013-0257

Manufacturer: DEUTZ AG
 Engine category: Nonroad CI
 EPA Engine Family: 8DZXL15.9065
 Mfr Family Name: TCD2015 TIER3
 Process Code: New Submission

Attachment p. 2 of 2

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
C3UI480B	TCD2015V08	643,6@1900	302	643,6	2065,1@1400	315	195,9	DDI, TC, CAC, ECM, SPL,EGR
C3UI480C	TCD2015V08	643,6@1800	309	643,6	2065,1@1400	315	195,9	DDI, TC, CAC, ECM, SPL,EGR
C3UI440	TCD2015V08	590@2100	255	590	1954,5@1400	300	186,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI440A	TCD2015V08	590@2000	262	590	1954,5@1400	297	184,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI440B	TCD2015V08	590@1900	271	590	1954,5@1400	297	184,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI440C	TCD2015V08	590@1800	283	590	1954,5@1400	297	184,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI400	TCD2015V08	536,4@2100	237	536,4	1954,5@1400	300	186,6	DDI, TC, CAC, ECM, SPL,EGR
C3UI400A	TCD2015V08	536,4@2000	241	536,4	1954,5@1400	297	184,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI400B	TCD2015V08	536,4@1900	250	536,4	1954,5@1400	297	184,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI400C	TCD2015V08	536,4@1800	257	536,4	1954,5@1400	297	184,7	DDI, TC, CAC, ECM, SPL,EGR
C3UI350	TCD2015V08	469,3@2100	215	469,3	1585,7@1400	246	153	DDI, TC, CAC, ECM, SPL,EGR
C3UI350A	TCD2015V08	469,3@2000	220	469,3	1585,7@1400	246	153	DDI, TC, CAC, ECM, SPL,EGR
C3UI350B	TCD2015V08	469,3@1900	225	469,3	1585,7@1400	246	153	DDI, TC, CAC, ECM, SPL,EGR
C3UI350C	TCD2015V08	469,3@1800	225	469,3	1585,7@1400	246	153	DDI, TC, CAC, ECM, SPL,EGR
C3UI370	TCD2015V08	496,1@2100	225	496,1	1401,3@1400	220	136,8	DDI, TC, CAC, ECM, SPL,EGR
C3UI300X	TCD2015V06	402,3@2100	227	402,3	1401,3@1300	276	119,5	DDI, TC, CAC, ECM, SPL,EGR