

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)
2010	ADZXL07.1051	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			Loaders, 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):

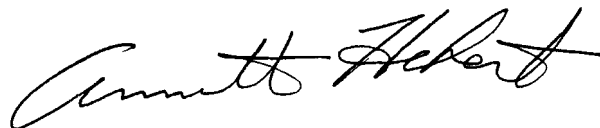
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	0.5	0.10	3	1	7

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 29 day of January 2010.



Annette Hebert, Chief
 Mobile Source Operations Division

Deutz AG
Nonroad CI

Engine Model Summary Template

Attachment page 2 of 2

EO# U-R-013-0352
12/30/2009

Engine Family	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@p eak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
ADZXL07.1051	C3UI160A	TCD2013L06	214.5@1800	135.0	81.0	702.1@1500	143.0	71.4	DDI, TC, CAC, ECM, SPL, EGR
ADZXL07.1051	C3UI150	TCD2013L06	201.1@1800	126.0	75.6	668.9@1500	137.0	68.4	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UI140	TCD2013L06	187.7@1800	118.0	70.8	649.0@1500	129.0	64.4	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UI186	TCD2013L06	249.4@2000	142.0	94.7	737.5@1500	153.0	76.4	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UT157	TCD2013L06	210.0@2350	110.5	86.6	616.6@1600	125.0	66.6	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UI173B	TCD2013L06	231.9@2000	133.0	88.7	702.1@1500	146.0	72.9	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UI148A	TCD2013L06	198.4@2000	113.0	75.3	649.0@1500	131.0	65.4	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UT195	TCD2013L06	261.4@2300	132.0	104.3	774.4@1500	161.0	82.9	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UT160	TCD2013L06	214.5@2300	111.0	86.2	654.2@1600	132.0	73.3	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UT182	TCD2013L06	244.0@2300	123.0	96.6	746.4@1600	156.0	83.9	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UT168	TCD2013L06	225.2@2100	124.5	87.1	767.0@1500	164.5	82.2	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UI176	TCD2013L06	236.0@2100	129.0	90.3	702.1@1500	146.0	72.9	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UI166A	TCD2013L06	222.6@1900	132.0	83.6	702.1@1500	143.0	71.4	DDI, TC, CAC, ECM, SPL
ADZXL07.1051	C3UI173C	TCD2013L06	231.9@2300	118.0	90.5	668.9@1500	139.0	69.4	DDI, TC, CAC, ECM, SPL