

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0347
		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)
2010	ADZXL06.1057	6.057	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, 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):

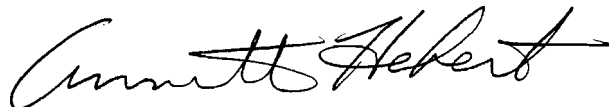
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	4.0	0.9	0.06	2	3	4

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 1 of 1

EO# 0-R-013-0347

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
ADZXL06.1057	C3UI155	TCD2012L06	177@2400	109	87,1	533,2@1600	125	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI155A	TCD2012L06	207,8@2300	112	85,8	597,4@1600	125	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI150	TCD2012L06	207,8@2200	112	82,1	597,4@1600	125	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI146	TCD2012L06	201,1@2100	113	79	597,4@1600	125	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI142	TCD2012L06	195,7@2000	116	77,3	597,4@1600	125	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI138	TCD2012L06	190,4@1900	122	77,2	597,4@1600	125	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI134	TCD2012L06	185@1800	122	73,1	597,4@1600	125	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI147	TCD2012L06	179,6@2400	105	83,9	597,4@1600	121	66,6	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI147A	TCD2012L06	197,1@2300	108	82,7	567,9@1600	121	64,5	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI143	TCD2012L06	197,1@2200	108	79,1	567,9@1600	121	64,5	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI139	TCD2012L06	191,7@2100	109	76,2	567,9@1600	121	64,5	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI135A	TCD2012L06	186,3@2000	112	74,6	567,9@1600	121	64,5	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI131A	TCD2012L06	181@1900	118	74,7	567,9@1600	121	64,5	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI140	TCD2012L06	175,6@2400	100	79,9	567,9@1600	117	64,5	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI140A	TCD2012L06	187,7@2300	104	79,7	538,4@1600	117	62,3	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI135	TCD2012L06	187,7@2200	104	76,2	538,4@1600	117	62,3	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI131	TCD2012L06	181@2100	105	73,4	538,4@1600	117	62,3	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI132	TCD2012L06	175,6@2400	95	75,9	538,4@1600	113	62,3	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI132A	TCD2012L06	177@2300	100	76,6	507,4@1600	113	60,2	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UI136	TCD2012L06	174,1@1800	123	73,7	597,4@1600	125	52,2	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UT135	TCD2012L06	181@2200	104	76,2	531,7@1600	116	61,8	DDI, TC, CAC, ECM, SPL, EGR
ADZXL06.1057	C3UT131	TCD2012L06	175,6@2100	105	73,4	531,7@1600	116	61,8	DDI, TC, CAC, ECM, SPL, EGR