

 AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0431
		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)
2012	CDZXL03.6085	3.619	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Turbocharger, 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 non-methane hydrocarbon (NMHC), 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):

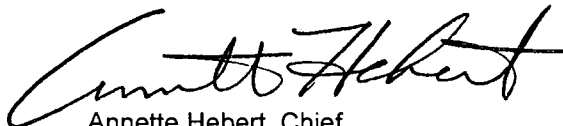
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Interim Tier 4	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT	--	--	4.6	1.2	0.24	1	2	2

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 2 day of March 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division

Deutz AG
Nonroad CI

Engine Model Summary Template

Attachment page 1 of 2

EO # U-R-013-0431

1/31/2012

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@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
CDZXL03.6085	C3UI55,1	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55H	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55J	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55L	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55P	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55R	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55S	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55T	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI55Q	TD2011L04w	73.8@2300	59	30.1	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54H	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54J	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54L	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54P	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54R	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54S	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54T	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI54Q	TD2011L04w	72.4@2200	58	28.4	257@1600	61	21.6	DDI, TC, EGR
CDZXL03.6085	C3UI52	TD2011L04w	69.7@2000	63	27.9	270@1600	65	23.1	DDI, TC, EGR
CDZXL03.6085	C3UI55RC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55SC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55TC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55QC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55HC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55JC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55LC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR

Deutz AG
Nonroad CI

Engine Model Summary Template

Attachment page 2 of 2

EO# U-R-013-0431

1/31/2012

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@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
CDZXL03.6085	C3UI55PC	TD2011L04w	74.3@2600	55	31.7	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55RA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55SA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55TA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55QA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55HA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55JA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55LA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55PA	TD2011L04w	74.3@2500	56.5	31.3	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55RB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55SB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55TB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55QB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55HB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55JB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55LB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR
CDZXL03.6085	C3UI55PB	TD2011L04w	74.3@2400	58	30.9	230@1700	55	20.7	DDI, TC, EGR