California Environmental Protection Agency AIR RESOURCES BOARD	DEUTZ AG	EXECUTIVE ORDER U-R-013-0311 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)
2009	9DZXL03.6098	3.619	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel 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 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
37 ≤ kW < 75	Tier 4 Interim	OPTIONAL STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT	--	--	4.2	1.1	0.23	6	2	15

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

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 27 day of February 2009.

Annette Hebert, Chief
Mobile Source Operations Division

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Engine Model Summary Template

Attachment P. 1 of 4

U-R-013-0311

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
9DZXL03.6098	C3UI68	TD2011L04w 68 kw	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI63	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI64,6	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI59,9	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58A	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55,1	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI68H	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI68J	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI68L	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI68P	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI68R	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI68S	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI68T	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI68Q	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UI63H	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI63J	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI63L	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI63P	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI63R	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI63S	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI63T	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI63Q	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61H	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61J	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR

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Engine Model Summary Template

Attachment p. 2 of 4

U-R-013-0311

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
9DZXL03.6098	C3UI61L	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61P	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61R	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61S	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61T	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI61Q	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58H	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58J	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58L	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58P	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58R	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58S	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58T	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI58Q	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI64H	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI64J	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI64L	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI64P	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI64R	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI64S	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI64T	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI64Q	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UI59H	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI59J	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI59L	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI59P	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR

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Engine Model Summary Template

Attachment P. 3 of 4

V-R-013-0311

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
9DZXL03.6098	C3UI59R	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI59S	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI59T	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI59Q	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58HA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58JA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58LA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58PA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58RA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58SA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58TA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI58QA	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55H	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55J	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55L	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55P	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55R	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55S	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55T	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI55Q	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54	TD2011L04w	54 kw 72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54H	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54J	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54L	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54P	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54R	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR

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Engine Model Summary Template

Attachment p 4 of 4 U-R-013-0311

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
9DZXL03.6098	C3UI54S	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54T	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI54Q	TD2011L04w	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI65H	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI65J	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI65L	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI65P	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI65R	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI65S	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI65T	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI65Q	TD2011L04w	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UI62H	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI62J	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI62L	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI62P	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI62R	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI62S	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI62T	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UI62Q	TD2011L04w	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR

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