



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

Dents AG

Newroad CI

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: mm/stroke @ peak HP (lbs/hr) (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
9DZXL03.6098	C3UJ68	TD2011L04w	68 kw 91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ61	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ58	TD2011L04w	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ64.6	TD2011L04w	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3UJ59.9	TD2011L04w	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UJ58A	TD2011L04w	77.7	59	31.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UJ55.1	TD2011L04w	73.8	59	30.1	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3UJ68H	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ68J	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ68L	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ68P	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ68R	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ68S	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ68T	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ68Q	TD2011L04w	91.1	69	39.8	270@1600	68	24.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63H	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63J	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63L	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63P	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63R	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63S	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63T	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ63Q	TD2011L04w	84.4	65	36.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ61H	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3UJ61J	TD2011L04w	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR

# Engine Model Summary Template

Deutz AG  
Nonroad CI

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: mm/stroke @ peak HP (lbs/hr) (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
9DZXL03.6098	C3U161L	TD2011L04W	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U161P	TD2011L04W	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U161R	TD2011L04W	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U161S	TD2011L04W	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U161T	TD2011L04W	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U161Q	TD2011L04W	81.8	64	34.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158H	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158J	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158L	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158P	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158R	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158S	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158T	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U158Q	TD2011L04W	77.7	63	32.1	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U164H	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U164J	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U164L	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U164P	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U164R	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U164S	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U164T	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U164Q	TD2011L04W	86.6	65	37.5	266@1600	64	22.7	DDI, TC, EGR
9DZXL03.6098	C3U159H	TD2011L04W	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U159J	TD2011L04W	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U159L	TD2011L04W	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U159P	TD2011L04W	80.3	60	33.3	257@1600	61	21.6	DDI, TC, EGR

**Engine Model Summary Template**

Deutz AG  
Nonroad CI

Attachment P. 3 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: 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
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	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

**Engine Model Summary Template**

Dentz AG  
Nonroad CI

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@pea k torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
9DZXL03.6098	C3U154S	TD2011L04W	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U154T	TD2011L04W	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U154Q	TD2011L04W	72.4	58	28.4	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U165H	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U165J	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U165L	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U165P	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U165R	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U165S	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U165T	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U165Q	TD2011L04W	87.1	65	37.6	270@1600	65	23.1	DDI, TC, EGR
9DZXL03.6098	C3U162H	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U162J	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U162L	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U162P	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U162R	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U162S	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U162T	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR
9DZXL03.6098	C3U162Q	TD2011L04W	82.8	61.5	35.5	257@1600	61	21.6	DDI, TC, EGR