



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	9DZXL06.1061	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
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.9	0.9	0.07	5	5	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 2009.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Deutz AG
Nonroad CI

U-R-013-0291

Attachment P. 1 of 1

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: lb/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
9DZX106.1061	C3U124	TCD2012L06 ¹³¹	175.6@1900	108	68.4	538.4@1500	115	57.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U127	TCD2012L06	170.3@1800	118	70.8	567.9@1500	121	60.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U120	TCD2012L06	160.9@1800	109	65.4	538.4@1500	114	56.9	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U128	TCD2012L06	171.6@2000	102	68.0	538.4@1500	115	57.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U114	TCD2012L06	152.8@1800	106	63.6	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U117	TCD2012L06	156.8@1900	103	65.2	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U121	TCD2012L06	162.2@2000	99	66.0	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U124A	TCD2012L06	166.2@2100	97	67.9	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U128B	TCD2012L06	171.6@2200	96	70.4	507.4@1500	111	55.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U114A	TCD2012L06	152.8@2000	89	59.3	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U118	TCD2012L06	158.2@2100	94	65.8	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U121A	TCD2012L06	162.2@2200	93	68.2	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U124B	TCD2012L06	166.2@2300	91	69.8	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U124C	TCD2012L06	166.2@2400	86	68.8	501.5@1500	106	52.9	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U129	TCD2012L06	172.9@1800	120	72.0	567.9@1500	121	60.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U120	TCD2012L06	160.9@2100	94.5	66.1	483@1600	103.0	54.9	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U104	TCD2012L06	140.2@2100	84	58.8	423.2@1600	93.5	49.8	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U196	TCD2012L06	129.4@2100	78	54.6	388.5@1600	87.5	46.6	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U187	TCD2012L06 ⁸⁷	117@2300	65	49.8	321.4@1600	74.0	39.4	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U123	TCD2012L06	164.9@2200	92.5	67.8	500.8@1600	109.5	58.3	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U118	TCD2012L06	158.2@2100	93	65.0	500.8@1600	109.5	58.3	DDI, TC, CAC, ECM, SPL, EGR
9DZX106.1061	C3U124	TCD2012L06	166.7@2100	93	65.0	511.2@1600	110.5	58.9	DDI, TC, CAC, ECM, SPL, EGR