

EXECUTIVE ORDER U-R-013-0264-1 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)							
2008	8DZXL02.3099	2.290	Diesel 8000								
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION								
Direct [Diesel Injection, Turboch Limiter, Exhaust Gas Re	arger, Smoke Puff ecirculation	Crane, Loaders, Tractor, Dozer	, Pump, Compressor							

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	EMISSION			E	EXHAUST (g/kw-l	OPACITY (%)					
CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK	
37 ≤ kW < 56	Tier 4 interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50	
		CERT			4.4	1.2	0.27	8	3	16	

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.

This Executive Order hereby cancels and replaces Executive Order U-R-013-0264 dated March 13, 2008.

Executed at El Monte, California on this _____ day of November 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Deutz AG Manufacturer:

Nonroad CI Engine category:

EPA Engine Family: 8DZXL02,3099

TD2009L04 MECH 37 - 56KW TIER 4 OPT.1 Mfr Family Name:

Running Change Process Code:

Attachment

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak forque Device Per SAE J1930	DDI, TC, EGR, 🕸	DDI, TC, EGR	DDI, TC, EGR	DDI, TC, EGR	DDI, TC, EGR		***************************************								ARREST PROTESTOR AND RESIDENCE AND ARREST ARREST AND ARREST ARREST AND ARREST ARREST AND ARREST A						
8.Fuel Rate: (lbs/hr)@peak torque	18.7	18.7	18.7	18.7	18.7			AND THE RESIDENCE OF THE PROPERTY OF THE PROPE												***************************************	
7.Fuel Rate: mm/stroke@peak torque	47.2	47.2	47.2	47.2	47.2			Assembly was the make we assembly as a common property of maps and all the state of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************											
6.Torque @ RPM (SEA Gross)	200@1800	200@1800	200@1800	200@1800	200@1800																
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	29.1	26.7	25.6	24.5	22.7							And the state of t								***************************************	
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	46.8	47.6	47.9	48.1	48.0			AND THE PROPERTY OF THE PROPER				ALIEN AT MANIFES AND THE THE ANALYSIS AND THE ANALYSIS AN						mana de la composiçõe de l	ANALYSIS ANALYSI ANALY	10 pp 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
3.BHP@RPM (SAE Gross)	50 KW67@2800	64,9@2600	63,2@2500	62@2400	58,8@2200	43.9kw							**************************************						ried in 1881 1881 1881 1881 1881 1881 1881 1		
2.Engine Model	TD2009L04		TD2009L04	TD2009L04	TD2009L04							CONTROL OF THE PROPERTY OF THE	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	THE RESIDENCE OF THE PARTY OF T		AND THE REAL PROPERTY OF THE P		***************************************			
1.Engine Code	C3CI50	C3CI48,4	C3Cl47,2	C3C146,3	C3CI43,9												The state of the s				