EXECUTIVE ORDER U-R-013-0234 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

DEUTZ AG

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	8DZXL03.6086	3.619	Diesel	8000				
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Direct Die	sel Injection, Turbocharg Exhaust Gas Recirc	er, Charge Air Cooler, culation	Loader, 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				XHAUST (g/kw-l	OPACITY (%)				
			нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT			4.5	0.8	0.20	2	2	3

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.

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

Annette Hebert, Chief

Mobile Source Operations Division

N-R-013-0234

Aanufacturer: **DEUTZ AG**

Engine category: Nonroad CI

PA Engine Family: 8DZXL03.6086

Wifr Family Name: TCD2011L04 W 37-75KW TIER3

Process Code: New Submission

Attachment

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9.Emission Control Device Per SAE J1930	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR	DDI, TC, CAC, EGR
8.Fuel Rate: (lbs/hr)@peak torque	28.1	28.1	28.1	28.1	28.1	26.7	26.7	26.7	26.7	26.7	21	22.4	24.2
7.Fuel Rate: mm/stroke@peak torque	. 62	6.2	6/	79	7.9	75		75	75	75	69	63	89
6.Torque @ RPM (SEA Gross)	350@1600	350@1600	350@1600	350@1600	350@1600	333@1600	333@1600	333@1600	333@1600	333@1600	270@1600	285@1600	300@1600
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	39.8	39.4	38.9	39.3	36.6	38.1	37.2	37.3	36.7	34.7	29.6	31.7	33.2
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	69	71	. 23	77	7.5	99	91	70	72	71	89	62	. 99
3.BHP@RPM (SAE Gross)	TCD2011L04w #,9 100.4@2300	100.4@2600	100.4@2500	100.4@2400	96.6@2200	95.5@2600	95.5@2500	95.5@2400	95.5@2300	91.6@2200	58 77.8@2300	84.5@2300	87.2@2300
2.Engine Model	TCD2011L04W	TCD2011L04w	TCD2011L04w	TCD2011L04w	TCD2011L04w	TCD2011L04w	TCD2011L04w	TCD2011L04w	TCD2011L04w	TCD2011L04w	TCD2011L04w 58 77.8@2300	TCD2011L04w	TCD2011L04w
1.Engine Code	C3UI74.9	C3UI74A	C3UI74B	C3UI74C	C3UI72	C3UI71.2	C3UI71A	C3UI71B	C3UI71C	C3UI68,3	C3UI58	C3UI62	C3UI65