

EXECUTIVE ORDER U-R-013-0203 New Off-Road

New Oπ-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)					
2007	7DZXL04.1080	4.038	Diesel	8000					
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION						
Direct Dies Exhaust -C	el Injection, Turbocharg Gas Recirculation, Smok Control Modul	e Puff Limiter, Engine	Loaders, Tractor, Dozer, Pu Other OEM Pro	ımp, Compressor, ducts					

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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	EMISSION			E	XHAUST (g/kW-l	nr)		OF	PACITY (%	(-)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		FEL	-	-	4.0	-	0.20	-	-	-
		CERT	-	-	3.8	0.6	0.09	4	2	7

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 ______ day of December 2006.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: DEUTZ AG

Engine category: Norroad CI

EPA Engine Family: 70230.04.1080

Mr Family Name: TCD20121.04 2V TIERS

Process Code: New Submission

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9. Emission Control Device Per SAE J1930	DDI, TC, CAC, ETS	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	DDI, TC, CAC,	
8.Fuel Hate: (lbs/hr)@peak torque	44,7	7,44	44,7	45,1	45,5	45,1	44,7	42,3	41,5	41,5	41,9	40,8	41,5	41,2	40,8	40,1	89,4	40,1	39,8	38,7	41,9	40,9	
mm/stroka@paak torque	92 1	2	52	127	82	127	128	119	41	117	118	115	4	116	115	113	=	113	112	5	119	111	
6. Torque (@ RPM (SEA Gross)	383,5@1600	383,5@1600	383,5@1600	383,5@1600	383,5@1600	365@1600	365@1600	365@1600	365@1600	365@1600	348,1@1600	348,1@1600	348,1@1600	348,1@1600	348,1@1600	331,1@1600	331,1@1600	331,1@1600	331,1@1600	331,1@1600	362,3@1500	304,2@1500	
(for desets only)	138.1	134,1	128,7	123,3	119,3	131,4	127,3	\$	81	113,9	124,7	<u>\$</u>	116,6	111,3	108,6	120,6	115,3	111,3	105,9	103,2	124,7	109,6	
mrn/stroka (Ø peak HP (for diesel only)	\$	100	8	18	\$	88	8	97	88	88	88	88	88	8	26	96	88	86	88	87	88	97	
3.BH-P@HPM r (SAE Gross)	138,1@2400	134,1@2300	128,7@2200	123,3@2100	119,3@2000	131,4@2400	127,3@2300	122@2200	118@2100	113,9@2000	124,7@2400	122@2300	116,6@2200	111,3@2100	108,8@2000	120,6@2400	115,3@2300	111,3@2200	105,9@2100	103,2@2000	124,7@2300	109,6@2300	
2.Engine Model	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04	TCD2012L04 1	TCD2012L04	TCD2012L04	
1.Engine Code	C3U103	C3U1100	Selle Selle	C30182	C30189	C3UISB	CBUISS	C3UI91	C3UI88	C3UIBS	C3UIS3	C3UI91A	C3UI87	CENTRE	C3UI81	C3U90	Saulee Saulee	C3UI83A	C3U179	C30177	ന്ദ്ര വങ	COUTRI .	