## **DEUTZ AG**

EXECUTIVE ORDER U-R-013-0349 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			FUEL TYPE	USEFUL LIFE (hours)	
2010	ADZXL06.1067	6.057	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Direct Dies Electro	el Injection, Turbochargonic Control Module, Sm Exhaust Gas Recirc	er, Charge Air Cooler, noke Puff Limiter, ulation	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	EMISSION		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.8	0.7	0.09	17	11	29

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 \_

Annette Hebert, Chief

Mobile Source Operations Division

Deutz ACT Nonroad CI

Engine Family 1.Engine Code

ADZXL06.1067 ADZXL06.1067

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ADZXL06.1067

C3CT137

C3CT133

C3CT177

C3CT152

C3CT134

C3CT162

C3CT163

C3CI180

C3CT135

C3CT177A

C3CI163

2.Engine Model

TCD2012L06

237@2100

218.8@2100

**Engine Model Summary Template** 

Attachment

4 Eval Data:

120.5

114

670.4@1600

627.7@1600

E0#U-R-013-0349

DDI, TC, CAC, ECM, SPL, EGR

DDI, TC, CAC, ECM, SPL, EGR

84.3

79,7

3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	(lbs/hr) @ peak HP (for diesels only)		7.Fuel Rate: mm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@pea torque	
183.7@2100	92.5	64.7	602,5@1450	117	56,5	DDI, TC, CAC, ECM, SPL,EGR
178.3@2100	91.5	64.0	584,8@1450	113	54,6	DDI, TC, CAC, ECM, SPL,EGR
237.3@2100	123.5	86.4	785,5@1450	156	75,3	DDI, TC, CAC, ECM, SPL, EGR
203.8@2100	101	70.6	670,4@1450	130	62,8	DDI, TC, CAC, ECM, SPL, EGR
179@2100	92	64.3	553,1@1600	107,5	57,3	DDI, TC, CAC, ECM, SPL, EGR
217.2@2200	108	79.1	700,3@1600	137,5	73,3	DDI, TC, CAC, ECM, SPL, EGR
218.8@2100	110.5	77.3	627.7@1600	122	65	DDI, TC, CAC, ECM, SPL, EGR
241.3@2100	125	87.4	787.7@1600	153.5	81.8	DDI, TC, CAC, ECM, SPL, EGR
181.4@2100	94	65.7	531@1600	104.5	55.7	DDI, TC, CAC, ECM, SPL, EGR

130

120.5

69.3

64.2