California Environmental Protection Agency		EXECUTIVE ORDER U-R-013-0495			
OB Air Resources Board	DEUTZ AG	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-14-012;

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)		
2015	FDZXL02.9016	2.925	Diesel	8000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT			
Cooler	ail Direct Injection, Turb Electronic Control Mod circulation, Diesel Oxida	ule, Exhaust Gas	Loader, Tractor,	Dozer		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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	EXHAUST (g/kW-	OPACITY (%)				
POWER CLASS	STANDARD		NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
$37 \le kW < 56$	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			4.6	1.6	0.02			

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 February 2015.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

Deutz AG Nonroad CI

Attachment page 1 of 1

Engine Model Summary Template

EO#U-R-013-0495

Date: 1/28/2015

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)		7.Fuel Rate: mm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@peal torque		9.Emission Control Device Per SAE J1930	
C4DI55C	TCD2.9L4	74.2@2300	57.0	29.1	221.2@1600	67.5	23.9	DDI,	TC, CAC, EGR, ECM, DOC	
C4DI55	TCD2.9L4	74.2@2600	56.0	29.1	221.2@1600	67.5	23.9	DDI,	TC, CAC, EGR, ECM, DOC	
C4DI55A	TCD2.9L4	74.2@2500	56.4	31.3	221.2@1600	67.5	23.9	DDI,	TC, CAC, EGR, ECM, DOC	
C4DI55B	TCD2.9L4	74.2@2500	56.7	30.2	221.2@1600	67.5	23.9	DDI,	TC, CAC, EGR, ECM, DOC	
C4DI54	TCD2.9L4	72.4@2200	56.5	27.6	191.7@1800	59.0	23.5	DDI,	TC, CAC, EGR, ECM, DOC	-
C4DI55D	TCD2.9L4	74.2@2200	56.7	27.6	221.2@1600	67.5	23.9	DDI,	TC, CAC, EGR, ECM, DOC	
C4DI50C	TCD2.9L4	67.0@2300	52.3	26.7	199.1@1600	67.5	21.5	DDI,	TC, CAC, EGR, ECM, DOC	
C4DI45	TCD2.9L4	60.3@2600	47.0	27.1	177.0@1600	54.0	19.1	DDI,	TC, CAC, EGR, ECM, DOC	
C4D145A	TCD2.9L4	60.3@2300	49.0	25.0	177.0@1600	54.0	19.1	DDI,	TC, CAC, EGR, ECM, DOC	
C4D145B	TCD2.9L4	60.3@2200	49.0	23.9	177.0@1600	54.0	19.1	DDI,	TC, CAC, EGR, ECM, DOC	
C4DT55	TCD2.9L4	74.2@2200	56.7	27.6	200.6@1600	67.5	23.9	DDI,	TC, CAC, EGR, ECM, DOC	
C4DT50	TCD2.9L4	67.0@2200	52.5	25.6	200.6@1600	61.5	21.8	DDI,	TC, CAC, EGR, ECM, DOC	
C4DT45	TCD2.9L4	60.3@2200	. 49.0	23.9	179.9@1600	55.5	19.7	DDI	TC, CAC, EGR, ECM, DOC	
	C4DI55C C4DI55S C4DI55A C4DI55B C4DI55B C4DI54 C4DI55D C4DI55D C4DI45S C4DI45A C4DI45B C4DI45B C4DT55 C4DT50	C4DI55C TCD2.9L4 C4DI55 TCD2.9L4 C4DI55A TCD2.9L4 C4DI55B TCD2.9L4 C4DI55B TCD2.9L4 C4DI55B TCD2.9L4 C4DI55D TCD2.9L4 C4DI55D TCD2.9L4 C4DI55D TCD2.9L4 C4DI55C TCD2.9L4 C4DI55C TCD2.9L4 C4DI45 TCD2.9L4 C4DI45A TCD2.9L4 C4DI45B TCD2.9L4 C4DI45B TCD2.9L4 C4DT55 TCD2.9L4	1.Engine Code 2.Engine Model (SAE Gross) C4DI55C TCD2.9L4 74.2@2300 C4DI55 TCD2.9L4 74.2@2600 C4DI55 TCD2.9L4 74.2@2500 C4DI55A TCD2.9L4 74.2@2500 C4DI55B TCD2.9L4 74.2@2500 C4DI55B TCD2.9L4 74.2@2200 C4DI54 TCD2.9L4 74.2@2200 C4DI55D TCD2.9L4 74.2@2200 C4DI55D TCD2.9L4 67.0@2300 C4DI50C TCD2.9L4 60.3@2600 C4DI45A TCD2.9L4 60.3@2200 C4DI45A TCD2.9L4 60.3@2200 C4DI45B TCD2.9L4 60.3@2200 C4DI45B TCD2.9L4 60.3@2200 C4DI45B TCD2.9L4 60.3@2200 C4DT55 TCD2.9L4 67.0@2200 C4DT50 TCD2.9L4 67.0@2200	1.Engine Code 2.Engine Model 3.BHP@RPM (SAE Gross) mm/stroke @ peak HP (for diesel only) C4DI55C TCD2.9L4 74.2@2300 57.0 C4DI55 TCD2.9L4 74.2@2600 56.0 C4DI55A TCD2.9L4 74.2@2500 56.4 C4DI55B TCD2.9L4 74.2@2500 56.7 C4DI55B TCD2.9L4 74.2@2200 56.5 C4DI55B TCD2.9L4 74.2@2200 56.7 C4DI55D TCD2.9L4 74.2@2200 56.7 C4DI55D TCD2.9L4 67.0@2300 52.3 C4DI50C TCD2.9L4 60.3@2600 47.0 C4DI45A TCD2.9L4 60.3@2300 49.0 C4DI45B TCD2.9L4 60.3@2200 49.0 C4DI45B TCD2.9L4 60.3@2200 49.0 C4DI45B TCD2.9L4 74.2@2200 56.7 C4DI45B TCD2.9L4 60.3@2200 49.0 C4DI45B TCD2.9L4 67.0@2200 56.7 C4DT50 TCD2.9L4 67.0@2200 <td>4.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 1.Engine Code 2.Engine Model 3.BHP@RPM (SAE Gross) HP (lbs/hr) @ peak HP C4DI55C TCD2.9L4 74.2@2300 57.0 29.1 C4DI55 TCD2.9L4 74.2@2600 56.0 29.1 C4DI55A TCD2.9L4 74.2@2500 56.4 31.3 C4DI55B TCD2.9L4 74.2@2500 56.7 30.2 C4DI55B TCD2.9L4 74.2@2200 56.5 27.6 C4DI55B TCD2.9L4 74.2@2200 56.7 30.2 C4DI55B TCD2.9L4 74.2@2200 56.5 27.6 C4DI55D TCD2.9L4 74.2@2200 56.7 20.2 C4DI55D TCD2.9L4 74.2@2200 56.7 27.6 C4DI50C TCD2.9L4 60.3@2600 47.0 27.1 C4DI45A TCD2.9L4 60.3@2200 49.0 25.0 C4DI45B TCD2.9L4 60.3@2200 49.0 23.9 C4DI45B TCD2.9L4 <td< td=""><td>4.Fuel Rate: mm/stroke @ peak (bs/hr) @ peak HP 1.Engine Code 2.Engine Model 3.BHP@RPM (SAE Gross) HP (for diesel only) 6.Torque @ RPM (for diesel only) C4DI55C TCD2.9L4 74.2@2300 57.0 29.1 221.2@1600 C4DI55 TCD2.9L4 74.2@2500 56.4 31.3 221.2@1600 C4DI55A TCD2.9L4 74.2@2500 56.7 30.2 221.2@1600 C4DI55B TCD2.9L4 74.2@2500 56.7 30.2 221.2@1600 C4DI55B TCD2.9L4 74.2@2500 56.7 30.2 221.2@1600 C4DI55B TCD2.9L4 74.2@2200 56.5 27.6 191.7@1800 C4DI55D TCD2.9L4 74.2@2200 56.7 27.6 221.2@1600 C4DI55D TCD2.9L4 67.0@2300 52.3 26.7 199.1@1600 C4DI55C TCD2.9L4 60.3@2300 49.0 25.0 177.0@1600 C4DI45B TCD2.9L4 60.3@2200 49.0 23.9 177.0@1600 C4DI45B</td><td>4.Fuel Rate: mm/stroke@peak HP (for dieselonly)(lbs/hr)@peak HP (for dieselonly)7.Fuel Rate: mm/stroke@peak HP (for dieselonly)7.Fuel Rate: mm/stroke@peak hP (for dieselonly)7.Fuel Rate: hP (for dieselonly)7.Fuel Rate: hP mm/stroke@peak hP (for dieselonly)7.Fuel Rate: hP for dieselonly)7.Fuel Rate: hP for dieselonly)7.Fuel Rate: hPP mm/stroke@peak hP for dieselonly)7.Fuel Rate: hPP for dieselonly)C4D155CTCD2.9L474.2@220056.029.1221.2@160067.5C4D155DTCD2.9L474.2@220056.730.2221.2@160067.5C4D155DTCD2.9L474.2@220056.727.6191.7@180059.0C4D155DTCD2.9L460.3@230049.027.1177.0@160054.0C4D145ATCD2.9L460.3@220049.023.9177.0@160054.0C4D145BTCD2.9L460.3@220049.023.9177.0@160054.0C4D145BTCD2.9L467.0@220056.727.6200.6@160067.5C4D145DTCD2.9L467.0@220056.727.6200.6@160067.5<!--</td--><td>4. 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