



Pursuant to the authority vested in California 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)
2019	KDZXL06.1050	6.057	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Continuous Trap Oxidizer, Selective Catalytic Reduction-Urea			Off-Road Crane, Loader, Pump, Compressor, Other Industrial Equipment	

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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	0.29	--	1.7	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 28th day of September 2018.


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

EO# U-R-013-0585
Date: 9/13/2018

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Deutz AG
Nonroad CI

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mmi/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA, Gross)	7.Fuel Rate: mmi/stroke@pe ak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
KDZXL06.1050	CFV1180	TC D6.1L6	241.3@2300	121.0	92.7	737.5@1450	148	71.5	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1180A	TC D6.1L6	241.3@2200	123.5	90.5	737.5@1450	148	71.5	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1180B	TC D6.1L6	241.3@2100	127.0	88.8	737.5@1450	148	71.5	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1180C	TC D6.1L6	241.3@2000	133.0	88.6	737.5@1450	148	71.5	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV160E	TC D6.1L6	214.5@1900	120.5	76.3	663.8@1450	130	62.8	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1160	TC D6.1L6	214.5@1800	126.5	75.8	663.8@1450	130	62.8	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1160A	TC D6.1L6	214.5@2100	106.7	81.8	663.8@1450	130	62.8	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1160B	TC D6.1L6	214.5@2300	110.0	80.6	663.8@1450	130	62.8	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1160C	TC D6.1L6	214.5@2100	112.7	78.8	663.8@1450	130	62.8	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1160D	TC D6.1L6	214.5@2000	116.5	77.6	663.8@1450	130	62.8	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1150	TC D6.1L6	201.1@2300	100.0	76.6	645.3@1450	126.5	61.1	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1150A	TC D6.1L6	201.1@2200	102.5	75.1	645.3@1450	126.5	61.1	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1150B	TC D6.1L6	201.1@2100	105.3	73.7	645.3@1450	126.5	61.1	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1140	TC D6.1L6	187.7@2100	98.0	68.5	608.4@1450	119.3	57.6	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1140A	TC D6.1L6	187.7@2000	101.0	67.3	608.4@1450	119.3	57.6	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	CFV1180F	TC D6.1L6	241.3@2000	133.0	88.6	737.5@1450	148	71.5	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
KDZXL06.1050	C5V1180	TC D6.1L6	241.3@2300	121.0	92.7	737.5@1450	148	71.5	DDI,TC,CAC,ECM,EGR,DOC,C,TOX,SCR-U
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