

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-19-095;

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)
2021	MDZXL06.1049	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, Continuous Trap Oxidizer, Selective Catalytic Reduction-Urea			Tractor	

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	0.03	0.16	--	0.03	0.005	--	--	--

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 on this 29th day of October 2020.



Allen Lyons, Chief
Emissions Certification and Compliance Division

Engine Family	1. Engine code	2.Engine Model	3. BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for Diesel only)	(lbs/hr) @ peak HP (for Diesel only)	6. Torque @ RPM (SAE Gross)	7. Fuel Rate: mm/stroke @ peak torque	8. Fuel Rate: (lbs/hr) @ peak torque	9. Emission Control Device Per SAE J1930
MDZXL06.1049	CFWT174U	TCD6.1L6	233.8@2100	124.3	87.0	790.6@1500	162.9	81.4	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT162U	TCD6.1L6	218.1@2100	112.7	78.8	739.0@1500	146.4	73.1	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT148U	TCD6.1L6	198.7@2100	105.2	73.6	671.9@1500	133.1	66.5	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT133U	TCD6.1L6	178.3@2100	95.0	66.4	603.3@1500	119.1	59.5	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT159U	TCD6.1L6	213.4@2200	109.0	79.9	668.2@1500	131.0	65.4	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT141U	TCD6.1L6	189.7@2200	97.2	71.2	615.8@1500	120.5	60.2	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT157U	TCD6.1L6	217.9@2100	109.4	76.5	655.6@1500	128.0	63.9	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT144U	TCD6.1L6	193.7@2100	100.5	70.3	671.9@1500	105.3	52.6	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT134U	TCD6.1L6	178.3@2100	94.5	66.1	603.3@1500	118.5	59.2	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT132U	TCD6.1L6	178.3@2100	95.0	66.4	603.3@1500	119.1	59.5	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT147U	TCD6.1L6	198.7@2100	105.2	73.6	671.9@1500	133.1	66.5	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT161U	TCD6.1L6	218.1@2100	112.7	78.8	739.0@1500	146.4	73.1	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT173U	TCD6.1L6	233.8@2100	124.3	87.0	790.6@1500	162.9	81.4	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U
MDZXL06.1049	CFWT175U	TCD6.1L6	233.3@2100	124.0	86.7	655.7@1500	128.0	63.9	DDI,TC,CAC,ECM,EGR,CTOX,SCR-U