

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	MDZXL05.7053	5.702	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, Tractor, Dozer, Pump, Compressor, Material Handler, and 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
75 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.03	0.30	--	0.1	0.01	--	--	--

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 22nd 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
MDZXL05.7053	CFVI129A	D6J	172.9@1800	101	60.5	850@1350	123	55.3	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI129B	D6J	172.9@1800	101.0	60.5	850@1350	123	55.3	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI129C	D6J	172.9@2000	96.0	63.9	850@1350	123	55.3	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI115A	D6J	154.2@1900	99.0	62.6	716@1400	102.5	47.8	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI129E	D6J	172.9@2000	96.0	63.9	850@1350	123	55.3	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI129F	D6J	172.9@2000	96.0	63.9	850@1350	123	55.3	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI129G	D6J	172.9@2000	96.0	63.9	850@1350	123	55.3	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI129H	D6J	172.9@2000	96.0	63.9	850@1350	123	55.3	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI98	D6J	131.4@2200	71.5	52.4	820@1400	117.5	54.8	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI115	D6J	154.2@2200	81.5	59.7	850@1400	120.5	56.2	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI115S	SD60F	154.2@2200	81.5	59.7	850@1400	120.5	56.2	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U
MDZXL05.7053	CFVI98S	SD60F	131.4@2200	71.5	52.4	820@1400	117.5	54.8	DDI,TC,CAC,ECM,EGR,DOC,CTOX,SCR-U