

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	MDZXL03.6055	3.621	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Common Rail Direct Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation, Electronic Control Module, Diesel Oxidation Catalyst, Continuous Trap Oxidizer, Selective Catalytic Reduction-Urea			Loader, Tractor, Dozer, Pump, Compressor, Material Handler, Small Cranes, 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
56 ≤ kW < 130	Tier 4 Final	STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.002	0.36	--	0.1	0.003	--	--	--

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).

BE IT FURTHER RESOLVED: That for the listed engine models which include engines from different power categories in the same engine family, the manufacturer is complying with the more stringent set of standards from the 56 ≤ kW < 130 power categories in conformance with the incorporated Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

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 November 2020.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-013-0641

Family: MDZXL03.6055

Attachment Last Revised: 11/16/2020

Model	Code	Trim	Config	Displacement	Displacement - Units	Peak Power	Peak Power - Units	Peak Power - Speed (rpm)	Peak Power - Fueling	Peak Power - Fuel Units	Peak Torque	Peak Torque - Units	Peak Torque - Speed (rpm)	Peak Torque - Fuel	Peak Torque - Fuel Units	OBD	GHG	Special	Notes
TCD3.6L4	CFVI100D		L4	3.621	Liters	134.1	horsepower	2000	113	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI100C		L4	3.621	Liters	134.1	horsepower	2200	106.5	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI100U		L4	3.621	Liters	134.1	horsepower	2300	103.5	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI95BU		L4	3.621	Liters	127.3	horsepower	2000	107	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI95AU		L4	3.621	Liters	127.3	horsepower	2200	100.9	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI95U		L4	3.621	Liters	127.3	horsepower	2300	93.6	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI70U		L4	3.621	Liters	93.8	horsepower	2200	73.1	mm3/stroke	390	N-m	1600	87.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI74BU		L4	3.621	Liters	99.7	horsepower	2000	81.7	mm3/stroke	410	N-m	1600	92	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI74AU		L4	3.621	Liters	99.7	horsepower	2200	77.1	mm3/stroke	410	N-m	1600	92	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI74U		L4	3.621	Liters	99.7	horsepower	2300	76.8	mm3/stroke	410	N-m	1600	92	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI80BU		L4	3.621	Liters	107.2	horsepower	2000	90.1	mm3/stroke	430	N-m	1600	98.4	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI80AU		L4	3.621	Liters	107.2	horsepower	2200	85.6	mm3/stroke	430	N-m	1600	98.4	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI80U		L4	3.621	Liters	107.2	horsepower	2300	84.7	mm3/stroke	430	N-m	1600	98.4	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI85BU		L4	3.621	Liters	113.9	horsepower	2000	95.5	mm3/stroke	460	N-m	1600	105	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI85AU		L4	3.621	Liters	113.9	horsepower	2200	90.5	mm3/stroke	460	N-m	1600	105	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI85U		L4	3.621	Liters	113.9	horsepower	2300	89.2	mm3/stroke	460	N-m	1600	105	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI90BU		L4	3.621	Liters	120.6	horsepower	2000	101.2	mm3/stroke	480	N-m	1600	109.7	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI90AU		L4	3.621	Liters	120.6	horsepower	2200	95.2	mm3/stroke	480	N-m	1600	109.7	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	CFVI90U		L4	3.621	Liters	120.6	horsepower	2300	93.6	mm3/stroke	480	N-m	1600	109.7	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI70U		L4	3.621	Liters	93.8	horsepower	2200	73.1	mm3/stroke	390	N-m	1600	87.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI74BU		L4	3.621	Liters	99.7	horsepower	2000	81.7	mm3/stroke	410	N-m	1600	92	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI74AU		L4	3.621	Liters	99.7	horsepower	2200	77.1	mm3/stroke	410	N-m	1600	92	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI74U		L4	3.621	Liters	99.7	horsepower	2300	76.8	mm3/stroke	410	N-m	1600	92	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI80BU		L4	3.621	Liters	107.2	horsepower	2000	90.1	mm3/stroke	430	N-m	1600	98.4	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI80AU		L4	3.621	Liters	107.2	horsepower	2200	85.6	mm3/stroke	430	N-m	1600	98.4	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI80U		L4	3.621	Liters	107.2	horsepower	2300	84.7	mm3/stroke	430	N-m	1600	98.4	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI85BU		L4	3.621	Liters	113.9	horsepower	2000	95.5	mm3/stroke	460	N-m	1600	105	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI85AU		L4	3.621	Liters	134.1	horsepower	2000	90.5	mm3/stroke	460	N-m	1600	105	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI85U		L4	3.621	Liters	134.1	horsepower	2200	89.2	mm3/stroke	460	N-m	1600	105	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI90BU		L4	3.621	Liters	134.1	horsepower	2300	101.2	mm3/stroke	480	N-m	1600	109.7	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI90AU		L4	3.621	Liters	127.3	horsepower	2000	95.2	mm3/stroke	480	N-m	1600	109.7	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI90U		L4	3.621	Liters	127.3	horsepower	2200	93.6	mm3/stroke	480	N-m	1600	109.7	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI95BU		L4	3.621	Liters	127.3	horsepower	2300	107	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI95AU		L4	3.621	Liters	93.8	horsepower	2200	100.9	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI95U		L4	3.621	Liters	99.7	horsepower	2000	93.6	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI100BU		L4	3.621	Liters	99.7	horsepower	2200	113	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI100AU		L4	3.621	Liters	99.7	horsepower	2300	106.5	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A
TCD3.6L4	C5VI100U		L4	3.621	Liters	107.2	horsepower	2000	103.5	mm3/stroke	500	N-m	1600	114.5	mm3/stroke	N/A	N/A	N/A	N/A