

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)
2022	NDZXL03.6060	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, Selective Catalytic Reduction-Urea			Loader, Tractor, Dozer, Pump, Compressor, Material Handler	

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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	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	0.001	0.31	--	0.1	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).

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.

BE IT FURTHER RESOLVED: That the listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer must submit the necessary data by March 31, 2022 to confirm or correct the certification emissions levels on this conditional certification. Failure to submit the necessary data or resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification and introduced into commerce in the State of California shall be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 5th day of January 2022.



Allen Lyons, Chief
Emissions Certification and Compliance Division

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	CFXI100D		L4	3.621	Liters	134.1	horsepower	2000	50.2	lb/hr	500	N-m	1600	40.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI100C		L4	3.621	Liters	134.1	horsepower	2200	52	lb/hr	500	N-m	1600	40.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI100U		L4	3.621	Liters	134.1	horsepower	2300	52.8	lb/hr	500	N-m	1600	40.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI95BU		L4	3.621	Liters	127.3	horsepower	2000	47.5	lb/hr	500	N-m	1600	40.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI95AU		L4	3.621	Liters	127.3	horsepower	2200	49.3	lb/hr	500	N-m	1600	40.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI95U		L4	3.621	Liters	127.3	horsepower	2300	50.2	lb/hr	500	N-m	1600	40.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI70U		L4	3.621	Liters	93.8	horsepower	2200	35.7	lb/hr	390	N-m	1600	31.1	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI74BU		L4	3.621	Liters	99.7	horsepower	2000	36.3	lb/hr	410	N-m	1600	32.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI74AU		L4	3.621	Liters	99.7	horsepower	2200	37.6	lb/hr	410	N-m	1600	32.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI74U		L4	3.621	Liters	99.7	horsepower	2300	39.2	lb/hr	410	N-m	1600	32.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI80BU		L4	3.621	Liters	107.2	horsepower	2000	40	lb/hr	430	N-m	1600	34.9	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI80AU		L4	3.621	Liters	107.2	horsepower	2200	41.8	lb/hr	430	N-m	1600	34.9	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI80U		L4	3.621	Liters	107.2	horsepower	2300	43.2	lb/hr	430	N-m	1600	34.9	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI85BU		L4	3.621	Liters	113.9	horsepower	2000	42.4	lb/hr	460	N-m	1600	37.3	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI85AU		L4	3.621	Liters	113.9	horsepower	2200	44.2	lb/hr	460	N-m	1600	37.3	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI85U		L4	3.621	Liters	113.9	horsepower	2300	45.5	lb/hr	460	N-m	1600	37.3	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI90BU		L4	3.621	Liters	120.6	horsepower	2000	44.9	lb/hr	480	N-m	1600	39	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI90AU		L4	3.621	Liters	120.6	horsepower	2200	46.5	lb/hr	480	N-m	1600	39	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXI90U		L4	3.621	Liters	120.6	horsepower	2300	47.8	lb/hr	480	N-m	1600	39	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT100U		L4	3.621	Liters	134.1	horsepower	2200	52.7	lb/hr	500	N-m	1600	40.8	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT95U		L4	3.621	Liters	127.3	horsepower	2200	49.3	lb/hr	500	N-m	1600	40.8	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT92U		L4	3.621	Liters	123.3	horsepower	2200	47.6	lb/hr	500	N-m	1600	40.8	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT85U		L4	3.621	Liters	114.5	horsepower	2200	43.5	lb/hr	480	N-m	1600	38	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT77U		L4	3.621	Liters	103.2	horsepower	2200	40	lb/hr	440	N-m	1600	35.1	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT75U		L4	3.621	Liters	99.9	horsepower	2200	39.1	lb/hr	420	N-m	1600	33.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT69U		L4	3.621	Liters	93.1	horsepower	2200	35.6	lb/hr	397	N-m	1600	31.6	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT88U		L4	3.621	Liters	117.9	horsepower	2200	45.9	lb/hr	500	N-m	1600	40.8	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT83U		L4	3.621	Liters	111.2	horsepower	2200	42.5	lb/hr	476	N-m	1600	37.3	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT70U		L4	3.621	Liters	93.8	horsepower	2200	36.1	lb/hr	397	N-m	1600	31.6	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT61U		L4	3.621	Liters	83.8	horsepower	2200	33.2	lb/hr	360	N-m	1600	29.1	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT68U		L4	3.621	Liters	93.1	horsepower	2200	35.6	lb/hr	397	N-m	1600	31.6	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT74U		L4	3.621	Liters	99.9	horsepower	2200	39.1	lb/hr	420	N-m	1600	33.7	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT76U		L4	3.621	Liters	103.2	horsepower	2200	40	lb/hr	440	N-m	1600	35.1	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT82U		L4	3.621	Liters	111.2	horsepower	2200	42.5	lb/hr	476	N-m	1600	37.3	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT84U		L4	3.621	Liters	114.5	horsepower	2200	43.5	lb/hr	480	N-m	1600	38	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT87U		L4	3.621	Liters	117.9	horsepower	2200	45.9	lb/hr	500	N-m	1600	40.9	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT94U		L4	3.621	Liters	127.3	horsepower	2200	49.3	lb/hr	500	N-m	1600	40.9	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT99U		L4	3.621	Liters	134.1	horsepower	2200	52.7	lb/hr	500	N-m	1600	40.9	lb/hr	N/A	N/A	N/A	N/A
TCD3.6L4	CFXT62U		L4	3.621	Liters	83.8	horsepower	2200	33.2	lb/hr	360	N-m	1600	29.1	lb/hr	N/A	N/A	N/A	N/A