

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	MDCLL01.8HTV	1.826	Diesel	8000		
SPECIAL	FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLIC	ATION		
	Electronic Control M ic Direct Injection, Perio rger, Exhaust Gas Reci Catalyst	odic Trap Oxidizer,	Tractor, Forklift			

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	EMISSION				EXHAUST (g/kw-ł		OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC NOx		NMHC+NOx	со	РМ	ACCEL	LUG	PEAK	
19 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A	
		CERT			4.0	0.3	0.004				

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 $37 \le kW < 56$ power category 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 <u>//t/</u> day of March 2021.

Allen Lyons, Chief Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-044-0164

Family: MCLL01.8HTV

Attachment Last Revised: 2/19/2021

	Carla	Tuine	Caufia	Disula consent	Displacement - Units	Deel, Devren	Peak Power -	Peak Power -	Peak Power -	Peak Power -	Deals Terring	Peak Torque -	Peak Torque -	Peak Torque -	Peak Torque -	OBD	CUC	Crassial	Natas
Model		Trim	Config	Displacement	Units	Peak Power	Units	Speed (rpm)	Fueling	Fuel Units	Peak Torque	Units	Speed (rpm)	Fuel	Fuel Units	ORD	GHG	Special	Notes
3HT4	3420- 2654	N/A	13	1.826	Liters	44.9	horsepower	2600	39.8	mm3/stroke	109.1	N-m	1700	45.1	mm3/stroke	N/A	N/A	N/A	N/A
3HT4	3820- 2654	N/A	13	1.826	Liters	50.3	horsepower	2600	44.2	mm3/stroke	122.4	N-m	1700	50.4	mm3/stroke	N/A	N/A	N/A	N/A
3НТ4	4120-	N/A	13	1.826	Liters	55.0	horsepower	2600	48.4	mm3/stroke	133.5	N-m	1700	56.5	mm3/stroke	N/A	N/A	N/A	N/A
3HT4	1318-	N/A	13	1.826	Liters	57.7	horsepower	2600	50.0	mm3/stroke	137.9	N-m	1700	57.5	mm3/stroke	N/A	N/A	N/A	N/A
3HT4	3424-	N/A	13	1.826	Liters	46.0	horsepower	2600	45.3	mm3/stroke	136.4	N-m	1600	57.1	mm3/stroke	N/A	N/A	N/A	N/A
3HT4	3121- 2254	N/A	13	1.826	Liters	42.0	horsepower	2600	41.7	mm3/stroke	121.4	N-m	1600	49.3	mm3/stroke	N/A	N/A	N/A	N/A
3НТ4	2830-	N/A	13	1.826	Liters	37.1	horsepower	2600	36.9	mm3/stroke	115.0	N-m	1600	46.9	mm3/stroke	N/A	N/A	N/A	N/A
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