

DAEDONG INDUSTRIAL CO., LTD

EXECUTIVE ORDER U-R-044-0169

New Off-Road Compression-Ignition Engines Page 1 of 1

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	NDCLL02.4HTV	2.435	Diesel	8000				
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
Injection	ronic Control Module, E on, Periodic Trap Oxidiz llation, Oxidation Cataly	er, Exhaust Gas	Loader, Tractor, Generator Se	et, 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			I	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC NOx		NMHC+NOx	CO	PM	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			3.9	0.1	0.002			

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 ≤ 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 5th day of January 2022.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-044-0169

Family: NDCLL02.4HTV

Attachment Last Revised: 12/16/2021

45	527-	Trim	Config		Unite	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
4HT4 26	1527-			Displacement	Units	reak rowei	UIIIIS	Speed (I pill)	rueiiiig	ruei Ollits	reak forque	Ullits	Speed (i piii)	ruei	ruei Ollits	OBD	ОПО	Special	Notes
	.054	N/A	14	2.435	Liters	60.3	horsepower	2600	40.3	mm3/stroke	154.8	lb-ft	1700	47.4	mm3/stroke	N/A	N/A	N/A	N/A
4HT4 50	021- 1654	N/A	14	2.435	Liters	66.4	horsepower	2600	43.7	mm3/stroke	162.2	lb-ft	1700	49.8	mm3/stroke	N/A	N/A	N/A	N/A
4HT4 55	520- 1654	N/A	14	2.435	Liters	73.1	horsepower	2600	48.3	mm3/stroke	177.3	lb-ft	1700	54.9	mm3/stroke	N/A	N/A	N/A	N/A
41174 50	020	N/A	14	2.435	Liters	66.4	horsepower	2400	45.4	mm3/stroke	174.8	lb-ft	1700	54.0	mm3/stroke	N/A	N/A	N/A	N/A
41TA 47	772	N/A	14	2.435	Liters	63.0	horsepower	2400	42.0	mm3/stroke	169.6	lb-ft	1700	51.1	mm3/stroke	N/A	N/A	N/A	N/A
4C	1000	N/A	14	2.435	Liters	53.6	horsepower	1800	47.9	mm3/stroke	159.3	lb-ft	1800	47.9	mm3/stroke	N/A	N/A	N/A	N/A
лытл 33	200	N/A	14	2.435	Liters	44.3	horsepower	1500	47.7	mm3/stroke	158.5	lb-ft	1500	47.7	mm3/stroke	N/A	N/A	N/A	N/A
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