

DAEDONG CORPORATION

EXECUTIVE ORDER U-R-044-0176

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)				
2023	PDCLL01.0D5G	1.007	Diesel	3000				
SPECIAL	. FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION					
	Indirect Diesel Inje	ection	Generator Set					

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			ı	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	N/A	N/A	N/A
		CERT		1	5.6	1.3	0.14	-		

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 29th day of December 2022.

Robin U. Lang, Chief

Johns Shi for

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-044-0176 Family: PDCLL01.0D5G Attachment Last Revised: 12/12/2022

Trim L J1 N/A	Config L3	Displacement 1.007	Units	Peak Power	Units	Speed (rpm)											
J1 N/A	L3	1.007				Speed (rpiii)	Fueling	Units	Peak Torque	Units	Speed (rpm)	Peak Torque - Fuel Units		OBD	GHG	Special	Notes
		1.007	Liters	10	kilowatt	1800	18.8	mm3/stroke	53	N-m	1800	18.8	mm3/stroke	N/A	N/A	N/A	N/A
L N/A	L3	1.007	Liters	16.4	kilowatt	3600	18	mm3/stroke	43.5	N-m	3600	18.0	mm3/stroke	N/A	N/A	N/A	N/A
L J N/A	L3	1.007	Liters	16.4	kilowatt	3600	18	mm3/stroke	43.5	N-m	3600	18.0	mm3/stroke	N/A	N/A	N/A	N/A
N/A	L3	1.007	Liters	10	kilowatt	1800	18.8	mm3/stroke	53	N-m	1800	18.8	mm3/stroke	N/A	N/A	N/A	N/A
N/A	L3	1.007	Liters	10	kilowatt	1800	18.8	mm3/stroke	53	N-m	1800	18.8	mm3/stroke	N/A	N/A	N/A	N/A
N/A	L3	1.007	Liters	16.4	kilowatt	3600	18	mm3/stroke	43.5	N-m	3600	18.0	mm3/stroke	N/A	N/A	N/A	N/A
N/A	L3	1.007	Liters	16.4	kilowatt	3600	18	mm3/stroke	43.5	N-m	3600	18.0	mm3/stroke	N/A	N/A	N/A	N/A
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																	+
-															-	-	+
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J	N/A N/A N/A	N/A L3 N/A L3 N/A L3 N/A L3	N/A L3 1.007 N/A L3 1.007 N/A L3 1.007 N/A L3 1.007	N/A L3 1.007 Liters N/A L3 1.007 Liters N/A L3 1.007 Liters N/A L3 1.007 Liters	N/A L3 1.007 Liters 16.4 N/A L3 1.007 Liters 10 N/A L3 1.007 Liters 10 N/A L3 1.007 Liters 16.4	N/A L3 1.007 Liters 16.4 kilowatt N/A L3 1.007 Liters 10 kilowatt N/A L3 1.007 Liters 10 kilowatt N/A L3 1.007 Liters 16.4 kilowatt	N/A L3 1.007 Liters 16.4 kilowatt 3600 N/A L3 1.007 Liters 10 kilowatt 1800 N/A L3 1.007 Liters 10 kilowatt 1800 N/A L3 1.007 Liters 16.4 kilowatt 3600	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 N/A L3 1.007 Liters 16.4 kilowatt 3600 18	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 mm3/stroke N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 mm3/stroke N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 mm3/stroke N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 mm3/stroke	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 mm3/stroke N/A N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 mm3/stroke N/A N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 mm3/stroke N/A N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 mm3/stroke N/A	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 mm3/stroke N/A N/A N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 mm3/stroke N/A N/A N/A L3 1.007 Liters 10 kilowatt 1800 18.8 mm3/stroke 53 N-m 1800 18.8 mm3/stroke N/A N/A N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 mm3/stroke N/A N/A	N/A L3 1.007 Liters 16.4 kilowatt 3600 18 mm3/stroke 43.5 N-m 3600 18.0 mm3/stroke N/A N