

California Environmental Protection Agency Air Resources Board	DAEDONG INDUSTRIAL CO., LTD	EXECUTIVE ORDER U-R-044-0118 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the 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-14-012;

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)
2016	GDCLL02.4F7T	2.435	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Control Module, Electronic Direct Injection, Periodic Trap Oxidizer, Turbocharger, Exhaust Gas Recirculation, Oxidation Catalyst			Tractor, 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
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	4.1	0.03	0.005	--	--	--

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 at El Monte, California on this 19th day of February 2016.


 Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

2-2-2016

EO#: U-R-044-0118

Attachment: Page 1 of 1

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
GDCLL02.4F7T	4121/2600	4F243T	55.0@2600	34.3@55.0	14.77@55.0	134.2@1700	39.5@134.2	11.13@134.2	EGR, ECM, DDI, OC, PTOX, TC
GDCLL02.4F7T	4527/2600	4F243T	60.3@2600	37.5@60.3	16.15@60.3	154.8@1700	46.2@154.8	13.01@154.8	EGR, ECM, DDI, OC, PTOX, TC
GDCLL02.4F7T	5020/2600	4F243T	66.4@2600	41.0@66.4	17.66@66.4	162.2@1700	48.7@162.2	13.72@162.2	EGR, ECM, DDI, OC, PTOX, TC
GDCLL02.4F7T	5520/2600	4F243T	73.1@2600	45.7@73.1	19.69@73.1	177.3@1700	54.0@177.3	15.21@177.3	EGR, ECM, DDI, OC, PTOX, TC