



YANMAR POWER TECHNOLOGY CO., LTD

EXECUTIVE ORDER U-R-028-0983  
New Off-Road  
Compression-Ignition Engines

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	MYDXL02.1TDA	2.091	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Exhaust Gas Recirculation, Electronic Control Module, Periodic Trap Oxidizer, Oxidation Catalyst			Crane, Loaders, Tractor, Dozer, Pump, Compressor, Excavator	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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	--	--	3.5	0.1	0.001	--	--	--

**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 6th day of January 2021.

Allen Lyons, Chief  
Emissions Certification and Compliance Division

**Attachment: Engine Models**EO #: U-R-028-0983Family: MYDXL02.1TDAAttachment Revised: 12/8/2020

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
4RTDPC	N/A	N/A	I4	2.091	Liters	61.4	horsepower	3000	36.7	mm3/stroke	129.0	lb-ft	1950	40.8	mm3/stroke	N/A	N/A	None	None
4RTDAC	N/A	N/A	I4	2.091	Liters	59.0	horsepower	3000	35.3	mm3/stroke	124.0	lb-ft	1950	39.3	mm3/stroke	N/A	N/A	None	None
4RTKAC	N/A	N/A	I4	2.091	Liters	55.1	horsepower	2800	34.8	mm3/stroke	124.0	lb-ft	1820	39.0	mm3/stroke	N/A	N/A	None	None
4RTLAC	N/A	N/A	I4	2.091	Liters	53.0	horsepower	2700	34.4	mm3/stroke	124.0	lb-ft	1755	38.8	mm3/stroke	N/A	N/A	None	None
4RTMAC	N/A	N/A	I4	2.091	Liters	50.8	horsepower	2600	33.9	mm3/stroke	124.0	lb-ft	1690	38.7	mm3/stroke	N/A	N/A	None	None
4RTNAC	N/A	N/A	I4	2.091	Liters	49.1	horsepower	2500	33.6	mm3/stroke	124.0	lb-ft	1625	38.6	mm3/stroke	N/A	N/A	None	None
4RTPAC	N/A	N/A	I4	2.091	Liters	47.6	horsepower	2400	33.9	mm3/stroke	125.0	lb-ft	1560	39.1	mm3/stroke	N/A	N/A	None	None