



YANMAR POWER TECHNOLOGY CO., LTD

EXECUTIVE ORDER U-R-028-0977
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	MYDXL03.3NDA	3.319	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Diesel Injection, Exhaust Gas Recirculation, Electronic Control Module, Periodic Trap Oxidizer, Oxidation Catalyst			Crane, Loader, Tractor, Dozer, Pump, Compressor, Excavator	

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	--	--	3.8	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 30th day of December 2020.

Allen Lyons, Chief
Emissions Certification and Compliance Division

Attachment: Engine Models

EO #: U-R-028-0977

Family: MYDXL03.3NDA

Attachment Revised: 12/17/2020

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
4TNMPC	N/A	N/A	I4	3.319	Liters	73.7	horsepower	2600	50.0	mm3/stroke	177.8	lb-ft	1690	57.4	mm3/stroke	N/A	N/A	None	None
4TNMAC	N/A	N/A	I4	3.319	Liters	72.0	horsepower	2600	48.5	mm3/stroke	173.3	lb-ft	1690	55.0	mm3/stroke	N/A	N/A	None	None
4TNNAC	N/A	N/A	I4	3.319	Liters	69.3	horsepower	2500	48.3	mm3/stroke	173.3	lb-ft	1625	55.0	mm3/stroke	N/A	N/A	None	None
4TNPAC	N/A	N/A	I4	3.319	Liters	66.9	horsepower	2400	48.2	mm3/stroke	173.3	lb-ft	1560	55.0	mm3/stroke	N/A	N/A	None	None
4TNQAC	N/A	N/A	I4	3.319	Liters	64.5	horsepower	2300	48.1	mm3/stroke	173.3	lb-ft	1495	55.0	mm3/stroke	N/A	N/A	None	None
4TNSAC	N/A	N/A	I4	3.319	Liters	61.9	horsepower	2200	48.1	mm3/stroke	173.3	lb-ft	1430	55.0	mm3/stroke	N/A	N/A	None	None
4TNVAC	N/A	N/A	I4	3.319	Liters	59.4	horsepower	2100	48.0	mm3/stroke	173.3	lb-ft	1365	55.0	mm3/stroke	N/A	N/A	None	None
4TNWAC	N/A	N/A	I4	3.319	Liters	56.9	horsepower	2000	47.5	mm3/stroke	173.3	lb-ft	1300	55.0	mm3/stroke	N/A	N/A	None	None
4TNQACOT	N/A	N/A	I4	3.319	Liters	64.5	horsepower	2300	48.1	mm3/stroke	173.3	lb-ft	1495	55.0	mm3/stroke	N/A	N/A	None	None
4TNNACOT	N/A	N/A	I4	3.319	Liters	69.3	horsepower	2500	48.3	mm3/stroke	173.3	lb-ft	1625	55.0	mm3/stroke	N/A	N/A	None	None
4TNNCC	N/A	N/A	I4	3.319	Liters	58.9	horsepower	2500	41.3	mm3/stroke	146.7	lb-ft	1625	45.4	mm3/stroke	N/A	N/A	None	None
4TNMFC	N/A	N/A	I4	3.319	Liters	72.0	horsepower	2600	48.5	mm3/stroke	173.3	lb-ft	1690	55.0	mm3/stroke	N/A	N/A	None	None
4TNNFC	N/A	N/A	I4	3.319	Liters	69.3	horsepower	2500	48.3	mm3/stroke	173.3	lb-ft	1625	55.0	mm3/stroke	N/A	N/A	None	None
4TNPFC	N/A	N/A	I4	3.319	Liters	66.9	horsepower	2400	48.2	mm3/stroke	173.3	lb-ft	1560	55.0	mm3/stroke	N/A	N/A	None	None
4TNQFC	N/A	N/A	I4	3.319	Liters	64.5	horsepower	2300	48.1	mm3/stroke	173.3	lb-ft	1495	55.0	mm3/stroke	N/A	N/A	None	None
4TNSFC	N/A	N/A	I4	3.319	Liters	61.9	horsepower	2200	48.1	mm3/stroke	173.3	lb-ft	1430	55.0	mm3/stroke	N/A	N/A	None	None
4TNVFC	N/A	N/A	I4	3.319	Liters	59.4	horsepower	2100	48.0	mm3/stroke	173.3	lb-ft	1365	55.0	mm3/stroke	N/A	N/A	None	None
4TNWFC	N/A	N/A	I4	3.319	Liters	56.9	horsepower	2000	47.5	mm3/stroke	173.3	lb-ft	1300	55.0	mm3/stroke	N/A	N/A	None	None