California Environmental Protection Agency	YANMAR CO., LTD.	EXECUTIVE ORDER U-R-028-0207 New Off-Road
		Compression-Ignition Engines

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-02-003;

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)		
2004	4YDXL2.00M4T	1.995	Diesel	8000		
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
C	Direct Diesel Injection, Tu	urbocharger	Crane, Loader, Trac Pump, Compressor,			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
CLASS			нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT			5.2	1.5	.33	4	3	9

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

day of December 2003.

Allen Lyons, Chief Mobile Source Operations Division

Eo	[#] U-R-28-207 Аснмент	7.Fuel Rate: M mm/stroke@peak 8.Fuel Rate: 9.Emission Control torque (lbs/hr)@peak torque Device Per SAE J1930	0.11.11.11.11.11.11.11.11.11.11.11.11.11	0 38.1 13.4 13.4 EM 77	38.1	0 38.1 13.4 EM	0 38.1 EM	
e Model S nmary Form		ite: 5.Fuel Rate; boak HP (Ibs/hr) @ peak HP 6.Torque @ RPM only) (for diesels only) (SEA Gross)	133.5/1700	24.1 119.4/1600	22.8	21.7 119.4/1600	20.6 119.4/1600	
Engine	Yanmar Co.,Ltd. Nonroad Cl 4YDXL2.00M4T N/A New Submission	4.F'uel Rate: 3.BHP@RPM mm/stroke @ peak ne Model (SAE Gross) (for diesef only)	4TNV84T-VM2 58.1/3000 38.4	4TNV84T-D 57.3/3000 36.4	4TNV84T-I 55.4/2900 35.7	4TNV84T-K 53.5/2800 35.2	/84T-L 51.4/2700 34.7	
	Manufacturer: Yanmar Co.,Ltc Engine category: Nonroad CI EPA Engine Fartity. 4YDXL2.00M4T Mfr Farnity Name: N/A Process Code: New Submissic	1.Engine Code 2.Engine Model	4TNV6	N/A 4TN	N/A 4T/N	ATN 4TN	N/A 4TNV84T-L	