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)
2003	3YDXL2.00D4T	1.995	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
C	Direct Diesel Injection, Tu	urbocharger	Crane, Loader, Tra Pump, Compressor, (	ctor, Dozer, Generator Set

The engine models and codes are attached.

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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			ſ	EXHAUST (g/kw-1	nr)		C	PACITY (	%)
CLASS	CATEGORY		нс	NOx	NMHC+NOx	co	РМ	ACCEL	LUG	PEAK
37 ≤ kW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT		7.0				8	6	18

**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  $20^{TH}$  day of December 2002.

Rophard Summer

Allen Lyons, Chief Mobile Source Operations Division

Engine Model S nmary Form

Manufacturer: Yanmar Co.,Ltd. Engine category: Nonroad Cl EPA Engine Faray: 3YDXL2.00D4T Mfr Family Name: N/A Process Code: New Submission

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ATTACHMENT

EO U-K-028-0108

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9.Emission Control Device Per SAE J1930		EM					DANAENLON 1 C	FM				FM					NA STATES	11.11.11.11.11.11.11.11.11.11.11.11.11.	· · · · · · · · · · · · · · · · · · ·	Contraction of the second s						
8.Fuel Rate: (lbs/hr)@peak torque De		14.8	A. 14. R. 18 19		D.T. B. W. C. M. S. M	11 A	0.11	14.8	14.2%	14.3		14.3		いたないではないで、サイドアの人になるなができた。												
7.Fuel Rate; mm/stroke@peak torque	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	37.3	100 8 2 2 3 minut	27.3	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37.3	54 1. 373 3. 194	37.3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	36.2	0.416-36.27 800 F	36.2											A WOULD TANK THE TANK			
6.Torque @ RPM (SEA Gross)	127,6/1800	121.0/1800	0.121.0/1800	121.0/1800	121.0/1800	121.0/1800	121.0/1800	121.0/1800	116.0/1800	116.5/1800	116.5/1800	116.5/1800									MARINE STREET, ST.					
5.Fuel Rate: (lbs/hr) @ peak HP (for diesets only)	22,9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	21.6	20.3	5 1 2 <b>0.9</b>	20.9			and the second secon											
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	34.6	34.6	34.6	34,6	0. Dr. 10 34.6	34.6	34.6	34.6	32.8	33.0	34.0	33.8			and the second secon											
3.BHP@RPM (SAE Gross)	12) 55.8/3000	55.8/3000	55.8/3000	55.8/3000	55.8/3000	55.8/3000	55.8/3000	55.8/3000	1 55.2/3000	51.8/2800	53.4/2800	53.0/2800														
2.Engine Model	4TNE84T-DM (42) 55.8/3000	4TNE84T-G2A	4TNE84T-ESA	4TNE84T-ESA	ATNE84T-EU	4TNE84T-EJS	ATNE84T-EHP	4TNE84T-EYA	ATNE84T-EJW	4TNE84T-EWA	S4D84E-1FD	4TNE84T-ENS											a a far a sa a sa a sa a sa a sa a sa a		and the second second second	
1.Engine Code	N/A	N/A	<b>NN</b>	N/A	NA	N/A	N/A N/A	N/A			N/A	N/A													and the second	

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