

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)
2007	7YDXL2.00K4N	1.995	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection			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 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):

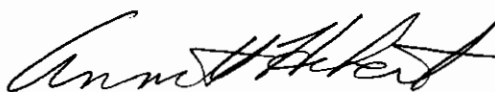
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT	--	--	5.9	3.8	0.34	2	3	3

**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 12 day of December 2006.



Annette Hebert, Chief  
 Mobile Source Operations Division

# Engine Model Summary Form

EO# U-2-028-0342  
Attachment, p 1 of 1

Manufacturer: Yanmar Co., Ltd.  
 Engine category: Nonroad CI  
 EPA Engine Family: 7YDXL2.00K4N  
 Mfr Family Name: N/A  
 Process Code: New Submission

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
N/A	4TNV84-VM1	46.7/3000	29.7	19.6	98.1/1400	32.7	10.1	EM DP1
N/A	4TNV84-D	46.1/3000	28.9	19.1	95.1/1400	31.5	9.7	EM
N/A	4TNV84-J	44.5/2900	28.7	18.3	95.1/1400	31.5	9.7	EM
N/A	4TNV84-K	42.8/2800	28.5	17.6	95.1/1400	31.5	9.7	EM
N/A	4TNV84-L	41.2/2700	28.3	16.8	95.1/1400	31.5	9.7	EM
N/A	4TNV84-M	39.6/2600	27.9	16.0	94.6/1100	32.3	7.8	EM
N/A	4TNV84-N	38.0/2500	27.6	15.2	94.6/1100	32.3	7.8	EM
N/A	4TNV84-P	36.4/2400	27.2	14.4	94.6/1100	32.3	7.8	EM
N/A	4TNV84-Q	34.8/2300	27.1	13.7	95.1/1100	32.6	7.9	EM
N/A	4TNV84-S	33.2/2200	27.0	13.1	93.9/1000	32.3	7.1	EM
N/A	4TNV84-V	31.7/2100	26.9	12.4	93.9/1000	32.3	7.1	EM
N/A	4TNV84-W	30.1/2000	26.8	11.8	93.9/1000	32.3	7.1	EM