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)							
2006	6YDXL0.85V3N	0.854	Diesel	3000							
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION								
	Indirect Diesel Inje	ection	Crane, Loader, Tractor, Dozer, Pur	np, 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	EMISSION			E	XHAUST (g/kw-ł	OPACITY (%)					
CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK	
8 ≤ kW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	20	15	50	
		CERT			5.5	1.5	0.16	3	5	6	

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 _____

19 14 day of December 2005.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model S⁷ Tmary Form

Manufacturer:Yanmar Co.,Ltd.Engine category:Nonroad ClEPA Engine Family.6YDXL0.85V3NMfr Family Name:N/AProcess Code:New Submission

U-R-028-0387 ATTACHMENT, PI of |

9.Emission Control Device Per SAE J1930				EM		EM		ΠN						EN EN		EM		EM EVANTATION OF		EM	EN	EM	EN	Ш	N EM	EM
ate: k torque	63 ***			0.9		6.3		5.6	0.6	5.6	10.00 million and a second	4.9 	4.9	4.6	4.6	7.4	6.9	6.9	6.3	6.3	5.6	5.6	5.6	5.6	4.9	4.9
7.Fue! Rate: mm/stroke@peak torque	20.0	17.3		17.5			0.01	18.8 	1818	18.8	18.8	18.5	18.5	18.4	18,4	17.3	17.3	17.5	19.0	19.0	18.8	18.8	18.8	18.8	18,5	18.5
6.Torque @ RPM (SEA Gross)	39,8/1900	36,6/2600		36,9/2400	38,2/2010	38,2/2000	38,2/2000	38.0/1800	38,0/1800	38.0/1800	38.0/1800	37.3/1600	37,3/1600	36.9/1500	36.9/1500	36,6/2600	36.6/2400	36,9/2400	38,2/2000	38.2/2000	38.0/1800	38.0/1800	38.0/1800	38.0/1800	37,3/1600	37.3/1600
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)		10.2	9.6	8,9	8.9	8.5	8.0	7.7	7.3	7.0	6.7	6.3	a. 60	5.7	5.4	10.2	9.6	8.9	8.9	8.0	7.7	7.3	7.0	6.7	6.3 C	6,0
4.Fuei Rate: mm/stroke @ peak HP (for diesel only)	D. Car	17.2	17.0	16.8	1810	1.7.1	17.3	17.2	1.71	17.0	16.9	16.7	16.5	16.4	.a. 16.3	17.2	17.0	16.8	18.0	17.3	17.2	17.1	17,0	16,9	16.7	16.5
3.BHP@RPM (SAE Gross)	20/4/8000	22.8/3600	1 21 5/3400	20.2/3200	19,6/3000	18.9/2900	18.2/2800	17.6/2700	16.8/2600	16.1/2500	15.4/2400	14.7/2300	13.8/2200	13.3/2100	12.5/2000 4	22.8/3600	21.6/3400	20.2/3200	19.6/3000	18.2/2800	17.6/2700	16.8/2600	16,1/2500	15.4/2400	14.7/2300	13.8/2200
2.Engine Model	SHINVTO VHMM	3TNV70-A	3TNV70-B	3TNV70-C	3TNV70-D	3TNV70-I	3TNV70-K	3TNV70-L	3TNV70-M	3TNV70-N	3TNV70-P	3TNV70-Q	3TNV70-S	3TNV70-V	3TNV70+W	3CA1-A	3CA14B	3CA1-C	3CA1-D	3CA1-K	CA1-L	3CA1-M	3CA1-N	3CA1-P	3CA1-O	3CA1-S
1.Engine Code	I NA	N/A	NA		NA	N/A	NA	N/A	NA	ACTURNIZACIONICIALIZZACIÓN A ACTURACIÓN A ACTURACIÓN A ACTURACIÓN A ACTURACIÓN A ACTURACIÓN A ACTURACIÓN A ACTU	N/A	N/A	NA	NA	NA	NA	N/A	NA	NAU	NA	NIA	N/A	A NA DEPARTMENT	N/A	N/A N/A	NA