California Environmental Protection Agency AIR RESOURCES BOARD	YANMAR CO., LTD.	EXECUTIVE ORDER U-R-028-0249 New Off-Road Compression-lanition Engines
		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)
2005	5YDXL2.09K4N	2.091	Diesel	5000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Direct Diesel Injed	tion	Compressor, Ref	rigerator

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	EXHAUST (g/kw-ł	ר ז ר)		C	PACITY (%)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
19≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			5.8	3.0	0.27	1	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

day of December 2004.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model S mary Form

E0#V-R-028-0249 ATTACHMENT 1061

7

Manufacturer: Yanmar Co.,Ltd. Engine category: Nonroad Cl EPA Engine Famly. 5YDXL2.09K4N Mfr Family Name: N/A Process Code: New Submission

13.1 102.0/1200 34.1 9.0 T20.1 EM 13.1 102.0/1200 34.1 9.0 EM 13.8 87.4/1560 27.1 9.3 13.8 87.4/1560 27.1 9.3	4.Fuel Rate: 3.EHP@RPM mm/stroke @ peak HP (SAE Gross) (for diesel only)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
87.4/1560	33.9/2200 21.2 33.9/2200 27.2
	a na serie de la companya de la comp

a .