YANMAR CO., LTD.	EXECUTIVE ORDER U-R-028-0225 New Off-Road Compression-Ignition Engines
	YANMAR CO., LTD.

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	5YDXL1.50K3H	1.496	Diesel	5000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
Direct Dies	sel Injection, Turbocharg	er, Charge Air Cooler	Crane, Loader, Dozer, Pump, Co	

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			1	EXHAUST (g/kw-ł	hr)		C	PACITY (	%)
CLASS	CATEGORY		нс	HC NOX NMHC+NOX CO PM					LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			5.8	1.7	0.34	3	1	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 September 2004.

Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Form

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1-K-028-0335

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•	Yanmar Co.,Ltd.	Nonroad Cl	5YDXL1.50K3H	N/A	New Submission	۰,۰
	Manufacturer:	Engine category:	EPA Engine Fam <b>i</b> y.	Mfr Family Name:	Process Code:	

1.Engine Code	1.Engine Code 2.Engine Model	3.EHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	9.Emission Control Jevice Per SAE J1930
N/A	3TNV84HT-VM	44.0/2600	40.0	17.2	104.7/1800	104.7/1800	13,2	DI EM POS
N/A	3TNV84HT-JT		39.0	16.8	102.7/1800	43.5	12.9	V EM V
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