EXECUTIVE ORDER U-R-028-0356 New Off-Road 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			FUEL TYPE	USEFUL LIFE (hours)			
2007	7YDXM0.57P2N	0.570	Diesel	3000			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
	Indirect Diesel Inje	ction	Marine Engine				

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)			OPACITY (%)				
POWER CLASS			нс	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	N/A	N/A	N/A
		CERT			4.5	0.9	0.22			

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 2200 day of December 2006.

Annette Hebert, Chief

Mobile Source Operations Division

Rophael Lumawith

Engine Model Summary Form

Yanmar Co.,Ltd. Manufacturer:

Engine category: Nonroad Cl
EPA Engine Family: 7YDXM0.57P2N

Mfr Family Name: N/A

New Submission Process Code

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9.Emission Control levice Per SAE J1930	EM, 10/
9.Emissio Device Per	u
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	N/A
B.I (lbs/hr	
7.Fuel Rate: mm/stroke@peak torque	NA
6.Torque @ RPM (SEA Gross)	N.V
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.9
4.Fuel Rate: mm/stroke @ peak HP (It	
3.BHP@RPM (SAE Gross)	4.4
1.Engine Code 2.Engine Model	2¥M15
1.Engine Code	N/A