YANMAR CO., LTD.

EXECUTIVE ORDER U-R-028-0443

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	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2009	9YDXL2.00K4T	1.995	Diesel	5000
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLI	
ι	Direct Diesel Injection, Tu	urbocharger	Crane, Loader, Tractor, D Pump, Compressor, Exca	

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			Ε	XHAUST (g/kW-l	hr)		C	PACITY (%)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT			6.0	1.3	0.18	2	1	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 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1 Engine Code	Engine Family 1 Engine Code 2 Engine Model	3.BHP@RPM (SAE Gross)	4. Fuel Rate. 5. Fuel Rate. mm/stroke @ peak HP (lbs/hr) @ peak HP 6. Torque @ RPM (for diesel only) (SEA Gross)	5. Fuel Rate. (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	#///F/ ED- 8 Fuel Rate: (lbs/hr)@peak torqu	Amething volude EO出り-ん-028・0443 8.Fuel Rate: 9.Emission Control ibs/hr)@peak torqueDevice Per SAE J1930
9YDXL2 COK4T	N/A	SMTMP	4.48.5/2600	32.0	18.3	121.3/1700	37.7	14.1	EM DI TC
9YDXL2.00K4T	N/A	3MTMA.	48.5/2600	32.0	18.3	117.7/1700	36.6	13.7	EM DI /
9YDXL2.60K4T	N/A	3MTNA.	48.1/2500	33.0	18.2	117.7/1700	36.6	13.7	EM DI
GVDXL2.00K4T	AIN	3MTPA	46.7/2400	32.8	17.3	117.7/1700	36.6	13.7	EM DI
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