California Environmental Protection Agency AIR RESOURCES BOARD	YANMAR CO., LTD.	EXECUTIVE ORDER U-R-028-0432 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	9YDXL3.32M4T	3.319	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger Exhaust Gas Recirculation, Electronic Control Module	Crane, Loader, Tractor, Dozer, Pump, 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):

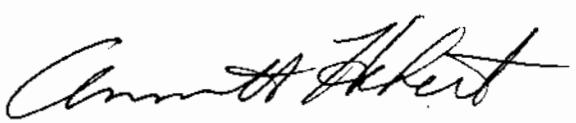
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.0	1.7	0.17	12	3	20

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 17 day of December 2008.



Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT
EQAU-R-025-0432

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
3YDXL3.32M4T	N/A	3TTMP	90.6/2600	62.4	35.8	220.5/1950	69.5	29.9	EGR EM DI TC
3YDXL3.32M4T	N/A	3TTMA	89.2/2600	61.5	35.2	212.1/1950	66.8	28.7	EM EGR DI
3YDXL3.32M4T	N/A	3TTNA	87.2/2500	60.8	33.5	215.1/1850	67.8	27.6	EM EGR DI
3YDXL3.32M4T	N/A	3TTPA	84.1/2400	58.4	30.9	216.6/1800	66.9	26.5	EM EGR DI
3YDXL3.32M4T	N/A	3TTQA	80.9/2300	62.5	31.7	217.3/1700	68.9	25.8	EM EGR DI
3YDXL3.32M4T	N/A	3TTSA	77.4/2200	61.4	29.8	217.3/1650	68.9	25.0	EM EGR DI
3YDXL3.32M4T	N/A	3TTNG	81.4/2500	56.8	31.3	211.4/1850	66.6	27.2	EM EGR DI
3YDXL3.32M4T	N/A	3TTNH	76.4/2500	53.5	29.5	204.2/1850	63.3	25.8	EM EGR DI