Catifornia Environmental Protection Agency		EXECUTIVE ORDER U-R-028-0646
D Air Resources Board	YANMAR CO., LTD.	New Off-Road
Var All Moavarcoa Doard		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)		
2014	EYDXL1.64NMA	1.642	Diesel	3,000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION				
Mechanical Direct Injection, Exhaust Gas Recirculation, Electronic Control Module			Crane, Loader, Tractor, Dozer, Pump, Compressor, Excavato			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon 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		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT			6.2	3.4	0.17	1	1,	1

**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 November 2013.

Mobile Source Operations Division

## Engine Model Summary Template

## ATTACHMENT

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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		9.Emission Control Device Per SAE J1930
EYDXL1.64NMA	N/A	4HNSPE1	24.1/2200	25.9	12.6	69.0/1300	28.6	8.2	ECU EM EGR DFI
EYDXL1.64NMA	N/A	4HNPAE1	24.1/2400	24.0	12.7	66.4/1300	27.5	7.9	ECU EM EGR DFI
EYDXL1.64NMA	N/A	4HNQAE1	24.1/2300	25.0	12.7	66.4/1300	27.5	7.9	ECU EM EGR DFI
EYDXL1.64NMA	N/A	4HNSAE1	24.1/2200	25.9	12.6	66.4/1300	27.5	7.9	ECU EM EGR DFI