California Environmental Protection Agency	YANMAR CO., LTD.	EXECUTIVE ORDER U-R-028-0332 New Off-Road Compression-Ignition Engines
		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)
2007	7YDXL1.33K3N	1.331	Diesel	3000
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	
	Direct Diesel Injec	ction	Crane, Loader, Trac Pump, Compressor,	tor, Dozer, 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	EMISSION			E	XHAUST (g/kw-h	וד)		C	PACITY (%)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
8≤ kW < 19	Tier 2	STD	N/A	N/A	7.5	6.6	0.80	20	15	50
		CERT			5.7	3.1	0.26	3	4	4

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 _____212 day of December 2006.

laphael Sussouite

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Template

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ATACHMENT U-K-028-0332

-			3.BHP@RPM	4. Fuel Rate: mm/stroke @ peak HP	5, Fuel Rate: (Ibs/hr) @ peak HP /for discele onto	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak toroue	B.Fuel Rate: B.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930	9.Emission Control Device Per SAE J19	trol 11930
Engine ramily			OF DITENT		10.1	67 8/1200	31.6	6.3	EM	100
VYUXE1.33K3N	N M	-W70ANIC	0007007	2.13					i	
7YDXL1.33K3N	N/A	3TNV82A-N	25.3/2500	24.5	10.1	66.0/1200	28.6	5.7	EM	
7YDXL1.33K3N	NIA	3TNV82A-P	24.3/2400	24.4	9.7	64.9/1200	28.3	5.6	EM	
7YDXL1.33K3N	N/A	3TNV82A-Q	23.2/2300	24.3	9.2	63.1/1200	27.8	5.5	EM	
7YDXL1.33K3N	N/A	3TNV82A-S	22.1/2200	24.3	8.8	64.6/1000	28.8	4.8	EM	
7YDXL1.33K3N	N/A	3TNV82A-V	21.2/2100	24.6	8,5	59.5/1000	27.3	4.5	EM	
7YDXL1.33K3N	N/A	3TNV82A-W	20.1/2000	23.8	7.9	62.7/1000	27.7	4.6	EM	
7YDXL1.33K3N	NIA	3D82AE-5N	25.3/2500	24.5	10.1	66.0/1200	28.6	5.7	EM	
7YDXL1.33K3N	N/A	3D82AE-5P	24.3/2400	24.4	9.7	64.9/1200	28.3	5.6	EM	
7YDXL1.33K3N	N/A	3D82AE-5O	23.2/2300	24.3	9.2	63.1/1200	27.8	5.5	EM	
7YDXL1.33K3N	N/A	3TNV82A-	23.2/2300	26.0	9.9	62.2/1200	27.9	5.5	EM	
7YDXL1.33K3N	N/A	3GNNA	24.9/2500	23.5	9.7	62.0/1200	26.3	5.2	EM	
7YDXL1 33K3N	N/A	3GNPA	23.9/2400	23.5	9.3	62.0/1200	26.3	5.2	EM	
7YDXL1.33K3N	N/A	3GNQA	22.8/2300	23.6	9.0	62.0/1200	26.8	5.3	EM	
7YDXL1.33K3N	N/A	3GNSA	21.7/2200	23.3	8.5	61.2/1200	26.5	5.3	EM	>