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-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system 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) 3000			
2002	2YDXL1.01R3N	1.006	Diesel				
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
	Indirect Diesel Inje	ection	Generator Set				

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	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		HC N/A	NOx N/A	NMHC+NOx	CO 6.6	PM 0.80	ACCEL N/A	LUG N/A	PEAK N/A
8 ≤ KW < 19	Tier 1	STD			9.5					
0 2,111	1.07	CERT			6.2	1.7	0.42			

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 2001

Ŕ. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Sur 'ary Form

ATTACHMENT

Manufacturer: Yanmar Diesel Engine Co.,Ltd.

Engine category: Nonroad CI

EPA Engine Family. 2YDXL1.01R3N

Mfr Family Name: N/A

Process Code: New Submission

EO U-R-028-0083

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E J1930	<u>-</u>				1			>			:		
Device Per SAE J1930	EM	Ē	EM	F		EM	EM	EM					
8.Fuel Rate. (Ibs/hr)@peak torque	N/A	A/N	N/A	NIA	C/N	N/A	N/A	N/A					
mm/stroke@peak torque	N/A	A/N	NIA	V/A	NA	N/A	A/N	N/A					
6.Torque @ RPM (SEA Gross)	A/N	VIIV	C/N	N/A	Y Z	N/A	N/A	N/A					
(lbs/hr) @ peak HP (for diesels only)	4		0.1	5.9	5,9	O. F.		6.1					
mm/stroke @ peak HP (for diesel only)	300	20.0	20.5	19.8	9.6	a CT	0.8	20.5					
3.BHP@RPM	(colo ave)	14.//1800	14.7/1800	13.1/1800	42 4/1800	13.1/1000	13.1/1800	14.7/1800					
Model	Z.Ellyllie iviouer	3TNE74-ECL1	3TNE74C-EKM	3TNE74C-EG1		31NE/4C-EG1	3TNE74C-EYA	3TNE74C-EMG 3TNE74C-EKM					
((1.Engine Code	A/Z	A/N	N/A	VIA.	A/N	A/N	N/A					