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)		
2002	2DHXL.9532D1	0.953, 0.850	Diesel	3000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	Riding Mower, Tractor			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), 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		нс	NOx	NMHC+NOx	СО	РМ	ACCEL	LUG	PEAK
8 < KW < 19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
0 _ 1(1)	1	FEL	N/A	N/A	7.5	N/A	N/A	N/A	N/A	N/A
	-	CERT			3.4	2.4	0.23	5	9	11

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

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Model Year:

2002

Manufacturer: DAIHATSU MOTOR Co., Ltd.

Engine Family: 2DHXL.9532D1

Issued:

Revised: 2001/09/19

E.O. Number: V-K-030 - 0006

Small Off-Road Engine Model Summary Form

Units for Table: kw

Worst Case?	47. Model Desig nation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing		53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	Control Sys
X	DM950D-C	50-State	953	72/78 mm	N/A	18.4	3600	56.0 Nm	2800 J	
^	DM950D-D	50-State	953	72/78	N/A	13.4	3100	43.1	2800	EM
	DM950D-E	50-State	953	72 <i>/</i> 78	N/A	16.0	3000	54.3	2800	} EM
	DM950D-E	50-State	953	72/78	N/A	15.2	3350	46.0	2800	EM
	DM950D-I	50-State	953	72/78	N/A	18.4	3600	56.0	2800	EM
		50-State	953	72/78	N/A	17.2	3250	52.2	2800	EM
	DM950D-H DM950D-J	50-State	953	72/78	N/A	17.1	3150	56.0	2800	EM
	DM850D	50-State	 850	68 <i>1</i> 78	N/A	16.3	3600	49.1	2800	ЕМ
	DM850D-A	50-State	850	68/78	N/A	12.6	2600	46.7	2500	} EM
		50-State	850	68/78	N/A	13.5	3100	43.5	2600	EM
	DM850D-B	50-State	850	68/78	N/A	(11.0)	2600	41.5	2500	EM
	DM850D-C	-	850	68/78	N/A	13.4	2600	49.1	2600	{ EM
	DM850D-C1	50-State		68/78	N/A	12.0	2500	45.1	2500	EM
	DM850D-D DM850D-E	50-State 50-State	850 850	68/78	N/A	15.0	2900	49.1	2800	T EM
					1000					