

File



DAIHATSU MOTOR CO., LTD.

EXECUTIVE ORDER U-R-030-0004
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-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.9532DT	0.953	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection, Turbocharger			Riding Mower	
ENGINE MODELS (rated power in kilowatts, kw)	DM950DT-A (24.6 kw) DM950DT-B (22.4 kw) DM950DT-C (22.1 kw) DM950DT-D (25.4 kw)			

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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		FEL	N/A	N/A	7.5	N/A	0.60	N/A	N/A	N/A
		CERT	--	--	5.9	1.4	0.24	14	5	28

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 12th day of July 2001.

R. B. Summerfield
R. B. Summerfield, Chief
Mobile Source Operations Division

Model Year: 2002
 Manufacturer: DAIHATSU MOTOR Co., Ltd.
 Engine Family: 2DHXL9532DT

Issued:
 Revised: 2001/05/07
 E.O. Number: U-R-30-4

Small Off-Road Engine Model Summary Form

Units for Table: kw

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
	DM950DT-A	50-State	953	72/78 mm	N/A	24.6	3500	54.2ft-lbs	2400	IDI,TC
	DM950DT-B	50-State	953	72/78mm	N/A	22.4	3500	51.3ft-lbs	2400	IDI,TC
	DM950DT-C	50-State	953	72/78mm	N/A	22.1	3250	51.3ft-lbs	2400	IDI,TC
X	DM950DT-D	50-State	953	72/78mm	N/A	25.4	3500	55.9ft-lbs	2400	IDI,TC