DAIHATSU MOTOR CO., LTD.

EXECUTIVE ORDER U-R-030-0010 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-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)
2004	4DHXL.9532D1	0.953, 0.850	Diesel	3000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Indirect Diesel Inje	oction	Riding Mow	er

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 POWER	EMISSION STANDARD			Į	EXHAUST (g/kw-l	٦٢)		OF	PACITY (%	6)
CLASS	CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
8 < KW < 19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
		FEL	N/A	N/A	7.5	N/A	N/A	N/A	N/A	N/A
		CERT			6.2	3.6	0.62	10	11	13

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 2003.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summ: Form

DAIHATSU Motor Co., Ltd. Manufacturer:

Nonroad Cl Engine category:

EPA Engine Family: 4DHXL.9532D1

Mfr Family Name: DM950D, DM850D

New Submission Process Code:

E0#V-R-030-0010

AMACHMENT

1.Engine Code	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/ht) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak t	∵8:Fuel Rate: ba/hr)@peak torque	∵8:Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1830
DM950D	DM950D-C	18.4kW @3600	18.4 @3600	11,4 @3600	41.3ft-ths @2800	20 6 @2800	000000000	141 F13
DM950D	DM950D-D	13.4 @3100	15.7 @3100	8.4 @3100	31.8 @2800	15.5 @2800	7.4 @3000	
DM950D	DM950D-E	16.0 @3000	19.5 @3000	10.1 @3000	40 1 @9800	00078 0'01 10 6 @3000	00029 1.1	EM, IUI
DM950D	DM950D-F	15.2@3350	16.6 @3350	93350	33.0 @3000	13.0 @2000	9.5 @2800	EM, IDI
DM950D	DM950D-G	18 4 @3600	18.4 @3600	11 4 @9600	13.9 @2000	17.3 @2800	8.3 @2800	EM, IDI
DM950D	DM9500-H	17.9 @3950	00000 F.D.1	11.4 @3000	41.3 @2800	20.6 @2800	10.0 @2800	EM, IDI
DAMOGOD	DMOSON I	00209 2.11	18.7 @3250	10.4@3250	38.5 @2800	19.6 @2800	9.5 @2800	EM. IDI
CONSTRUCTOR	DMSaUD-J	17.2 @3150	17.4 @3150	9.5 @3150	41.3 @2800	20.6 @2800	10.0 @2800	EM IDI
CORRIGIAN	DM95UD-K	18.8 @3600	19.4 @3600	12.1 @3600	44.4 @2800	21.7 @2800	10 5 @9800	
CloseMC	DM850D	16.3 @3600	17.5 @3600	10.9 @3600	36.2 @2800	18 9 @9800	00000000	
DM950D	DM850D-A	12.6 @2600	17.0 @2600	7 7 @2600	34 5 @9500	005100 0 01	000799 6.0	EM, ICI
DM950D	DM850D-R	13 5 @3100	00100 0 91	00078 1.1	00029 6.10	17.3 @2500	7.5 @2500	EM, IDI
OM950D	DM8500-C	11.0 @5000	00169 2101	8.0 W3100	32.1 @2600	16.2 @2600	7.3 @2600	EM, IDI
DMOEOU	DAMESON CI	0007æ 0'11	14.7 @2600	6.5 @2600	30.6 @2500	14.9 @2500	6.5 @2500	EM, IDI
Corollo	DM650D-CI	13.4 @2500	18.2 @2600	8.2 @2600	36.2 @2600	18.2 @2600	8.2 @2600	FM ID
CORPOR	DM850D-D	12.0 @2500	15.9 @2500	6.8 @2500	33,3 @2500	15.9 @2500	6.8 @2500	
Омероп	DM850D-E	15.0 @2900	18.2 @2900	9.1 @2900	36.2 @2800	18.9 @9800	00079 0.0	
DM950D	DM850D-F	15.6 @3150	17.9 @3150	9.8 @3150	36.9 @2800	00000 0101	0.00 \$ 0.00	באי וכו
DM950D	DM850D-G	15.7 @3250	17.8 @3950	00000000	00078 2.00	16.6 6.500	8.8 662800	EM, IDI
DMOSOD	DM850D_H	10.0 @1050	00709 071	10.0 @3230	30,2 @2800	18.2 @2800	8.8 @2800	EM, IDI
	CINGOOM II	10.0 @3350	09889 871	10.3 @3350	36.2 @2800	18.2 @2800	A R @9800	EM IDI