California Environmental Protection Agency AIR RESOURCES BOARD	DAIHATSU MOTOR CO., LTD	EXECUTIVE ORDER U-R-030-0029 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)
2011	BDHXL.9532DT	0.953	Diesel	5000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Indirect Diesel Injection, Turbocharger	Tractor and Riding Mower

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	--	--	6.0	1.4	0.23	8	3	20

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 27TH day of December 2010.

M. Tuents FOR AGM

Annette Hebert, Chief
Mobile Source Operations Division

Attachment: Page 1 of 1

Date: 12-23-2010

Engine Model Summary Template

EO#: U-R-030-0029

Engine Family	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/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J193
BDHXL.9532DT	DM950DT	DM950DT-Q	24.9kW@3500	27.3@3500	16.0@3500	55.2ft-lbs@2400	26.5@2400	10.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QA	24.6kW@3500	27.0@3500	15.8@3500	55.0ft-lbs@2400	26.4@2400	10.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QB	24.2kW@3400	26.7@3400	15.2@3400	55.0ft-lbs@2400	26.4@2400	10.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QC	23.4kW@3300	26.3@3300	14.5@3300	55.0ft-lbs@2400	26.4@2400	10.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QD	23.1kW@3200	26.7@3200	14.2@3200	55.0ft-lbs@2400	26.4@2400	10.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QE	22.5kW@3100	26.1@3100	13.5@3100	55.0ft-lbs@2400	26.4@2400	10.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QF	21.9kW@3000	26.2@3000	13.1@3000	55.0ft-lbs@2400	26.4@2400	10.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QG	22.7kW@3500	24.9@3500	14.5@3500	50.2ft-lbs@2400	24.0@2400	9.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QH	22.0kW@3400	24.8@3400	14.0@3400	50.2ft-lbs@2400	24.0@2400	9.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QI	21.0kW@3300	24.4@3300	13.4@3300	50.2ft-lbs@2400	24.0@2400	9.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QJ	20.5kW@3200	24.6@3200	13.1@3200	50.2ft-lbs@2400	24.0@2400	9.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QK	19.7kW@3100	24.4@3100	12.6@3100	50.2ft-lbs@2400	24.0@2400	9.6@2400	EM, IDI, TC
BDHXL.9532DT	DM950DT	DM950DT-QL	18.9kW@3000	24.2@3000	12.1@3000	50.2ft-lbs@2400	24.0@2400	9.6@2400	EM, IDI, TC