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 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)		
2004	4DWXL21.9AYA	21.9	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Die:	sel Injection, Turbocharg	er, Charge Air Cooler	Generator Set			

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	EMISSION	_	EXHAUST (g/kW-hr)				OPACITY (%)			
POWER	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
kW > 560	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	N/A	N/A	N/A
		CERT	0.1	8.2		0.9	0.09	-		

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.

This Executive Order hereby supersedes Executive Order U-R-013-0176 dated July 13, 2004

Executed at El Monte, California on this ______ day of June 2005.

J. Fourino

Mobile Source Operations Division

Engine Model ? Thary Form

Daewoo Heavy Industries & Machinery Ltd.

Nonroad Cl anufacturer:

4DWXL21.9AYA igine category:

fr Family Name: P222LE yA Engine Famity.

New Submission rocess Code: ğ

1. Fuel Rate: 5, Fuel Rate: 5, Fuel Rate: 5, Fuel Rate: 8, Fuel Rate: 9, Fuel Rate:<
7.Fuel Rate: mm/stroke@peak torque 255 233 265 233 265 233 265 233 265 233 265 233 256
6. Torque @ RPM (SEA Gross) 2702@1500 2315@1800 2315@1800 2546@1800 2546@1800 2546@1800 2546@1800 2546@1800 2596@1500 2596@1500
5. Fuel Rate: (Ibs/hr) @ peak HP (for diesels only) 263.2 305.1 203.2 292.0 292.0 253.4 250.3
4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 265 256 256 256 256 233 256 257 256 257 257 257 252 252 252 252
3.BHP@RPM (SAE Gross) (SAE Gross) 871@1500 792@1800 792@1800 792@1800 755@1800 755@1800 755@1800 755@1800
2.Engine Model P222LE YOA P222LE YOA P222LE YOA P222LE YOA P222LE YOA P222LE YOB P222LE YOB P222LE YOB
1. Engine Code

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