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 ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2004	4DWXL11.1DJA	11.1	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direct Dies	sel Injection, Turbocharg	er, Charge Air Cooler	Generator Set	۰.		

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 STANDARD CATEGORY		EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS			нс	NOx	NMHC+NOx	со	РM	ACCEL	LUG	PEAK
225 <u>&lt;</u> kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		CERT			4.7	0.6	0.11			

**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 \_

13<sup>771</sup> day of July 2004.

Allen Loons, Chief Mobile Source Operations Division

Engine Model S ymary Form

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Attachment 1081 U-R-019-0080

Manufacturer: Daewoo Heavy Industries & Machinery Ltd.

Engine category: Nonroad Cl EPA Engine Family: 4DWXL11.1DJA

Mfr Family Name: P126TI

Process Code: New Submission

4.Fuel Rate: 5.Fuel Rate: 5.Fuel Rate: 7.Fuel Rate: 3.BHP@RPM mm/stroke @ peak HP (Ibs/hr) @ peak HP 6.Torque @ RPM mm/stroke@peak 8.Fuel Rate: 9.Emission Control (for diseels only) (for disesels only) (SEA Gross) torque (Ibs/hr)@peak torque Device Per SAE J1930)	DDI,TC&CAC, <del>3PL</del>	DDI, TC&CAC, GPL	DDI,TC&CAC,SPL	DDI,TC&CAC,SHE	DDI,TC&CAC, BHE	DDI,TC&CAC,SPE	DDI,TC&CAC,SPL
8.Fuel Rate: (lbs/hr)@peak torque	120	107	136	127	113	132	119
7.Fuel Rate: mm/stroke@peak torque	242	215	228	213	189	221	200
6.Torque @ RPM (SEA Gross)	1280 @1500	1135 @1500	1168@1800	1090 @1800	969 @1800	1130 @ 1800	1026 @1800
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	120	107	136	127	113	132	119
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	242	215	228	213	189	221	200
3.BHP@RPM (SAE Gross)	365 @1500	324 @1500	400 @1800	373 @1800	332 @1800	387 @1800	351 @1800
2.Engine Model	P126TI IOA		P1261110A	P1261110A	P126TI IOA	P126T1 10B	P126T110B
1.Engine Code							