EXECUTIVE ORDER U-R-044-0001 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 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 DIS		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2003	3DCLL02.2D87	2.197	Diesel	5000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Indirect Diesel Injection			Tractor		

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	EMISSION STANDARD		EXHAUST (g/kw-hr)					OPACITY (%)		
CLASS	CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 <u><</u> KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		CERT			6.4	1.6	0.45	4	5	7

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 January 2003.

Allen Lyons, Chief

Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Form

Manufacturer: Daedong Industrial Co. Ltd.

Engine category: Nonroad Cl

EPA Engine Family: 3DCLL02.2D87

Mfr Family Name: NA

Process Code: New Submission

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1000-44000)

	4A220B		3A165LG-2	3A165D	3A165B	
	4A220	4A220	3A165	3A165	3A165	
	45@2600	45@2700	32@2600	34@2600	34@2700	3.BHP@RPM (SAE Gross)
1000 1000 1000 1000 1000 1000 1000 100	33	31.6	30,79	33.6	31.8	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)
	18.96	18.85	13.27	14.46	14.2	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)
	109@1700	101@1700	76.67@1700	79.78@1700	75.1@1700	6,Torque @ RPM (SEA Gross)
	38.56	35.6	35.76		35.7	7.Fuel Rate: mm/stroke@peak lorque
	14.48	13.36	10.08	10.91	10.06	8.Fuel Rate: (lbs/hr)@peak torque
	NA ↓	NA	NA	NA	NA TOT	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak lorque Device Per SAE J1930

各个的时候就是一个时间,我们就是一个人的时间,我们们也不是一个时间,我们也不是一个人的时候,我们也是一个人的时间,我们也不是一个人的时间,我们们们也会会会会会 一个时间,我们就是一个人的话,我们也不是一个人的话,我们就是一个人的话,我们就是一个人的话,我们就是一个人的话,也是一个人的话,我们也是一个人的话,我们也是一个