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	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2007	7KMCL1.71A31	1.714	Diesel	5000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Indirect Diesel Injection			Crane, Loader, Tractor, Dozer, Pump, Compressor and Other Industrial Equipment			

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 CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 <u><</u> kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT			6.0	1.7	0.27	6	6	8

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 _____/6 day of February 2007.

Furnar

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

U-2-046-0017

Kukje Machinery Co., EPA Mnfr:1700 Nonroad Cl Engine category: Manufacturer:

7KMCL1.71A31 EPA Engine Fam**i**y.

Mfr Family Name: A1700N1

New Submission Process Code:

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ion (IDI,EM	DIEM	
9.Emission Control evice Per SAE J193		<u>)</u> 🖸	
9.E Devic			
8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE J1930			
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8.Fuel Rate: hr)@peak tor	10.52	0.60	
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7.Fuel Rate: mm/stroke@peak torque	39.0 28.0		
7.Fuel Rate: n/stroke@pe torque	39.0 28.0	35.5	
7.Fu n/str to		1997 - 1997 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1	
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6.Torque @ RPM (SEA Gross)	85.5@1600 83.3@1600	00.5@1600 76.5@1600	
Torque @ RP (SEA Gross)	0	9 0	L,
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ate: sak F only			
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	16.1	1 4	
5.FL s/hr) or di			
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4.Fuel Rate: n/stroke @ peak (for diesel only)	0	o io	
4.Fuel Rate: stroke @ pea or diesel only	34.0	32.5	
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4.Fuel Rate: mm/stroke @ peak (for diesel only)			
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.BHP@RPM (SAE Gross)	37@2800	35@2600 32@2600	
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1.Engine Code 2.Engine Model			