California Environmental Protection Agency AIR RESOURCES BOARD	JIANGSU JIANGDONG GROUP CO., LTD.	EXECUTIVE ORDER U-R-055-0002 New Off-Road Compression-Ignition Engines
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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)	
2009	9JDGL0.48DHC	0.479	Diesel	3000	
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION		
	Indirect Diesel Inje	ction	Pump, Compressor,	Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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			E	EXHAUST (g/kw-ł	רr)		C	PACITY (	%)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4	STD	N/A	N/A	7.5	8.0	0.40	N/A	N/A	N/A
		CERT			6.1	6.7	0.28			

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 March 2009.

Annette Hebert, Chief Mobile Source Operations Division

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6.Fuel Rate: 9.Ennission Control (Ιοs/πι)@peak torqueDevice Per SAE J1830	EM 1P1	EM	N.	EM
te: 9.€ IorqueDevic				
8.Fuel Rate: (bs/hr)@peak tor	4.59	4.23	3.88	3.53
7.Fuet Rate: mm/stroke@peak torque	15.82	14.6	13.38	12.17
	24N.m/2600	22N.m/2600	20N.m/2600	18N.m/2600
4. Fuel Rate: 5. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak kIP (Ibs/h1) @ peak HP 6. Tongue @ RPM (for diesel only) (for diesels only). (SEA Gross)			3.88 2	3.53
4.Fuel Rate: /stroke @ peak HP_(lbs (for diesel only) (to	15.82	14.6	13.38	12.17
3.BHP@RPM (SAE Gross)	8.7/2600	8/2600	7.4/2600	6.7/2600
2.Èngine Moder	JD500-A	40200-B	JD500-C	J-0501-D
1 Engine Code				
Engine Family 1 Engine Code 2.Engine Model	9 /FNG1:0 480HC	9 IDGL6 48DHC	9.EDCLOARDFIC	B IDGLU/ADHC

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