California Environmental Protection Agency

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)		
2004	4X9XL0540AAA	8.8	Diesel	8000		
	FEATURES & EMISSION					
Direct Dies	el Injection, Turbocharg Powertrain Control I	er, Charge Air Cooler, Module	Tractor			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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			E	XHAUST (g/kw-h	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 < kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL	N/A	N/A	6.2	N/A	0.19	N/A	N/A	N/A
		CERT			6.1	1.1	0.15	13	12	21

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 November 2003.

Allen Loons, Chief Mobile Source Operations Division

U-R-011-00B1			-			8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	TOT.	-		
						7.Fuel Rate: mm/stroke@peak torque	214	205	204	210
/ Form 						6.Torque @ RPM (SEA Gross)	1150@1400	1097@1400	1097@1400	1133@1400
ATAAAATENT PS (041						5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	110.6	118.0,	119.5*	126.0
Engine Mo						4.Fuel Rate: mrt/stroke @ peak HP (for diesel only)	164	167	169	178
	oration					3.BHP@RPM (SAE Gross)	325@2000	325@2100	340@2100	350@2100
р и т.	CNH Engine Corporation	Nonroad Cl	4X9XL0540AAA	A563	New Submission	2.Engine Model	16TAA-9004	6TAA-9004	6TAA-9004	6TAA-9004
	Manufacturer:	Engine category: Nonroad Cl	EPA Engine Family.	Mfr Family Name: A563	Process Code:	1.Engine Code	AA77/EB9920	8478/FR9922	6478/FE91303	8478:FH9921

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