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) 8000		
2004	4MMLL03.2NTY	3.192	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Di	irect Diesel Injection, To	urbocharger	Loader and Tractor			
Di	irect Diesel Injection, To	urbocharger	Loader and Tr	actor		

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		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37≤KW<75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT			6.2	3.3	0.20	11	2	19

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 October 2004.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form

u-R-043-0014

MAHINDRA & MAHINDRA LTD., Manufacturer:

Nonroad Cl Engine category:

EPA Engine Family: 4MMLL03.2NTY

Mfr Family Name: MAHINDRA & MAHINDRA

New Submission Process Code:

8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	DUE, MATC DOE, MATC
8.Fuel Rate: (lbs/hr)@peak torque	20.54
7.Fuel Rate: mm/stroke@peak torque	58.14 58.14
6.Torque @ RPM (SEA Gross)	247NM@1600 247NM@1600
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	28.4 28.4
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	51.44 51.44
3.BHP@RPM (SAE Gross)	70.99@2500 70.99@2500
Engine Code 2.Engine Model	NE472R 2WD NE472R 4WD
Engine Code	A N A N