California Environmenial 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)		
2010	AMMLL02.5N52	2.497	Diesel	8000		
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Mechanic Coole	al Direct Injection, Turbo er, Engine Control Modu Recirculation	ocharger, Charge Air le, Exhaust Gas	Loader, Tractor, Pump			

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 STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS			НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u><</u> KW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			4.4	1.6	0.15	3	4	26

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 2010.

Annette Hebert, Chief Mobile Source Operations Division

ATTACHMENT 10F1

Lighte model cummary com

Manufacturer MAHINDRA & MAHINDRA LTD.,

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Engine category: Nonroad Cl

EPA Engine Family AMMLL02.5N52

Mfr Family Name: MAHINDRA & MAHINDRA

Process Code: New Submission

U-R-043-0068

3/1/2010

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peals torque	8,Fuel Rate: (lbs/hr)@pcak torque	9.Emission Control Device Per SAE J1930
NA NA	NE352 2wd NE352 4wd	5109@2100 51.09@2100	54.84@2100 54.84@2100	19.06@2100	199.8N.m@1400	59.32@140 0	13.75@1400	DI, NA LACITC'E CM, EGR
	INCJUZ HWU	31.09@2100	04.04WZ100	19.06@2100	199.8N.m@1400	59.32@1400	13.75@1400	NA a

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