

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)
2009	9MMLL03.3N79	3.330	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Exhaust Gas Recirculation			Loader, Tractor	

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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
56≤KW<75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	3.9	0.8	0.15	3	5	4

**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 12<sup>th</sup> day of December 2008.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

ATTACHMENT 1 CF 1

Engine Model Summary Form

Manufacturer: MAHINDRA & MAHINDRA LTD.,  
Engine category: Nonroad CI  
EPA Engine Family: 9MMLL03.3N79  
Mr. Family Name: NEW ENGINE FAMILY  
Process Code: New Submission

U-R-043-0055

1. Engine Code	2. Engine Model	3. BHP @ 2300 (SAE Gross)	4. Fuel Rate mm³/kwh (for diesel only)	5. Fuel Rate (brake) mm³/kwh (for diesel only)	6. Torque @ RPM (SEA Gross)	7. Fuel Rate mm³/kwh torque	8. Fuel Rate (brake) mm³/kwh torque	9. Emission Content Dioxin Per SAE J1820
NA	NE479 2w9	80.35@2300	60.49@2300	30.73@2300	314N.m@1400	71.29@1400	22.05@1400	22.05@1400
NA	NE479 4w9	80.35@2300	60.49@2300	30.73@2300	314N.m@1400	71.29@1400	22.05@1400	22.05@1400

NA ECN, ECR  
NA ECN, ECR  
NA ECN, ECR