

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)
2007	7MVX02.5AAA	2.3, 2.5	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			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
19 ≤ KW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		CERT	--	--	5.5	1.1	0.35	6	6	9

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 22nd day of December 2006

Raphael Szwarc
 for Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT 1 OF 1

U-R-035-0211

Engine Family	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@peak torque	8. Fuel Rate: (lbs/hr)/@peak torque	9. Emission Control Device Per SAE J1930
MVXL02.5AAA	4IRQ2N	4IRQ2N	36.0@1800	37	14.8	99.5@1350	36.5	10.8	IDI
MVXL02.5AAA	S4Q-Y261GT	S4Q	41.5@2600	32	18.2	92.6@1600	33.5	11.7	IDI
MVXL02.5AAA	S4Q2 32.2KW-01	S4Q2	43hp@2400	34	17.9	98ftlb@2000	34.5	15.1	IDI
MVXL02.5AAA	S4Q2 36.0KW-01	S4Q2	48.3@2500	36.0	19.8	107@1800	37.0	14.6	IDI
MVXL02.5AAA	S4Q2-Y261DP	S4Q2	49.3@2500	38	21.1	107@1800	37	14.6	IDI
MVXL02.5AAA	S4Q2-Y261GT	S4Q2	46.5@2700	34.5	20.4	99.8@1600	36.3	12.9	IDI
MVXL02.5AAA	S4Q2-Y262IR	S4Q2	36.0@1800	37	14.8	99.5@1350	36.5	10.8	IDI
MVXL02.5AAA	S4Q2-Y262KL	S4Q2	44.5@2200	38	18.3	107@1800	37	14.6	IDI
MVXL02.5AAA	S4Q2-Y262SD	S4Q2	36.0@1800	37	14.8	99.5@1350	36.5	10.8	IDI
MVXL02.5AAA	S4Q2-Y263KL	S4Q2	46.3@2400	36	18.9	107@1800	37	14.6	IDI
MVXL02.5AAA	S4Q2-Y265DG	S4Q2	36.0@1800	37	14.8	99.5@1350	36.5	10.8	IDI
MVXL02.5AAA	S4Q2-Y265DP	S4Q2	48.3@2500	36.0	19.8	107@1800	37	14.6	IDI
MVXL02.5AAA	S4Q2-Y265DPA	S4Q2	48.3@2500	36.0	19.8	107@1800	37	14.6	IDI
MVXL02.5AAA	S4Q2-Y265DPB	S4Q2	48.3@2500	36.0	19.8	107@1800	37	14.6	IDI