



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	7MVXL05.0AAD	3.3, 5.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Loader, Tractor, Dozer, Pump, Compressor and Industrial Equipment	

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
37 ≤ KW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	--	--	6.0	0.8	0.24	7	6	11

**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 22<sup>nd</sup> day of December 2006.

  
Annette Hebert, Chief  
Mobile Source Operations Division

# Engine Model Summary Template

ATTACHMENT 1 OF 1

U-R-035-0220

Engine Family	1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate:		5. Fuel Rate:		6. Torque @ RPM (SEA Gross)	7. Fuel Rate:		8. Fuel Rate: (lbs/hr)/@peak torque	9. Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	(lbs/hr) @ peak HP (for diesels only)	(lbs/hr)/@peak torque					
MVXL05.0AAD	S4S-81PA	S4S-DP	63@2600	44	25	148ftlb@1600	50	18	IDI			
MVXL05.0AAD	S4S-81PB	S4S-DP	58@2600	42	24	136ftlb@1600	47	17	IDI			
MVXL05.0AAD	S4S-Y231NFL	S4S-DP	57@2300	45	23	135ftlb@1800	47	19	IDI			
MVXL05.0AAD	S4S-Y231NFLA	S4S	55hp@2300	44	23	135ftlb@1800	46	18	IDI			
MVXL05.0AAD	S4S-Y231NFLB	S4S	52hp@2300	43	22	128ftlb@1800	44	17	IDI			
MVXL05.0AAD	S4S-Y231NSA	S4S	57hp@2300	45	23	135ftlb@1800	47	19	IDI			
MVXL05.0AAD	S4S-Y25AFL	S4S-DP	57@2300	45	23	135ftlb@1800	47	19	IDI			
MVXL05.0AAD	S4S-Y25AFLA	S4S	55hp@2300	44	23	135ftlb@1800	46	18	IDI			
MVXL05.0AAD	S4S-Y25AFLB	S4S	52hp@2300	43	22	128ftlb@1800	44	17	IDI			
MVXL05.0AAD	S4S-Y265DP	S4S-DP	63HP@2500	46	25	145ftlb@1500	49	16	IDI			
MVXL05.0AAD	S4S-Y267DP	S4S-DP	63HP@2500	46	25	145ftlb@1500	49	16	IDI			
MVXL05.0AAD	S4S-Y268DP	S4S-DP	63HP@2500	46	25	145ftlb@1500	49	16	IDI			
MVXL05.0AAD	S6S-Y231TCM	S6S-DP	91@2300	47	36	210ftlb@1600	49	26	IDI			