Californ	ia Environmental Protection	Agency	
AIR	in Environmental Protection RESOURCES	BOARD	]

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	7MVXL06.4FFF	6.4	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLIC	
	el Injection, Turbocharg Emission Control N		Loader, Tractor, Dozer, Pump, Compres 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	EMISSION			E	XHAUST (g/kw-ł	רי)		OF	PACITY (%	•)
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
75 <u>&lt;</u> KW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT			3.6	3.4	0.21	12	3	23

**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 December 2006.

Annette Hebert, Chief Mobile Source Operations Division

## Engine Model Summary Template

ATTACHMENT 1 OF 1

WR-035-0225

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J193	DI TAA		DITAA		DI IAA		DITAA	a se	
8.Fuel Rate: (lbs/hr)@peak torquel	48 5	<b>2</b>	48.5		47.2		47.2		
7.Fuel Rate: mm/stroke@peak torque		100.0	108.5		104 4		104.4		
6.Torque @ RPM (SEA Gross)		481@1400	104 84 400	481011400	00100100	401@1400	181@1400		
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)		56.4		52.5		56.3	CLL	7.00	
4.Fuei Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM (for diesel only) (for diesels only) (SEA Gross)		94.5	ومدمد والأغب شارية والإنجاب والمستوا ومؤاففة شاروا ولك المسترك والانتخاذ المراجع والالا والمسترك وليرو	92.5	and a second	93.6		91.7	
3.BHP@RPM	(SAE GIOSS)	156 8@1800		147.4@1800		156.8@1800		147.4@1800	and a second
	2.Engine Model	C 6 A	t.00	CE A	r.00	C6 4		C6.4	
	Engine Family 1. Engine Code 2. Engine Model		C6.4-11/KW-UZ		C6.4-110Kvv-UZ	CO A AATUM	CO.4-11/NVV	C6 4-110kW	
	Engine Family		7MVXL06.4FFF C6.4-11/KVV-UZ	n na	7MVXL06.4FFF C6.4-11UKW-UZ		7MVXL06.4FFF		/WV XLU0.4FFF

## **Engine Model Summary Template**

Engine Family	Engine Family 1.Engine Code 2.Engine Model	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: 9.Emission Contro (lbs/hr)@peak torque Device Per SAE J15	9.Emission Contro Device Per SAE J15
7MVXL06.4FFF	C4.2-98kW	C4.2	131.4@2200	102	49.9	345@1800	114	45.6	DI TAA
7MVXL06.4FFF	D04FD-98kW-H	D04FD	131.4@2200	102	49.9	345@1800	114	45.6	DI TAA
7MVXL06.4FFF	D04FD-91kW-H	D04FD	122.0@2150	66	47.3	328@1700	112	42.3	DI TAA
7MVXL06.4FFF	C6.4-117kW-02	C6.4	156.8@1800	94.5	56.4	481@1400	108.5	48.5	DI TAA
7MVXL06.4FFF	C6.4-110kW-02	C6.4	147.4@1800	92.5	52.5	481@1400	108.5	48.5	DI TAA
7MVXL06.4FFF	C6.4-117kW	C6.4	156.8@1800	93.6	56.3	481@1400	104.4	47.2	DI TAA
7MVXL06.4FFF	C6.4-110kW	C6.4	147.4@1800	91.7	55.2	481@1400	104.4	47.2	DI TAA