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;

Pursuant to the December 15, 1998 Settlement Agreement (SA) between ARB and the Manufacturer, and any modifications thereof to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)		
2006	6VSXL.16.1CE3	16.1	Diesel	8000		
	FEATURES & EMISSION		TYPICAL EQUIPMENT A			
Direct Dies Engl	sel Injection, Turbocharg ine Control Module, Smo Exhaust-Gas Recirc	ke Puff Limiter,	Loader, Other 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	EMISSION			E	XHAUST (g/kW-l	nr)		OF	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
225 <u><</u> kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.8	0.9	0.17	5	2	13

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 $36^{\frac{2H}{2}}$ day of December 2005.

Rephard Sumointy

^c⁷Allen Lyons, Chief Mobile Source Operations Division

Engine Model Summary Template

Attachment 103 1 U-R-003-0044

	Engine Family	Engine Family 1.Engine Code 2.Engine Model	2.Engine Model	3.BHP@RPM (SAE Gross)	 Fuel Rate: mm/stroke @ peak HP (for diesel only) 	5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torc	8.Fuel Rate: 9.Emission Control Ibs/hr/@peak torque Device Per SAE J1930
7	6VSXL16.1CE3	-	D16ELAE3	532 @ 1800	314 ± 4 %	188 ± 4 %	1879 @ 1400	368 ± 4 %	172 ± 4 %	368 ± 4 % 172 ± 4 % EM,ECM,TC,CAC,EGR
	6VSXL16.1CE3	=	D16EEAE3	464 @ 1800	276 ± 4 %	166 ± 4 %	1783 @ 1350	376 ± 4 %	169 ± 4 %	166 ± 4 % 1783 @ 1350 376 ± 4 % 169 ± 4 % EM,ECM,TC,CAC,EGR

' ANDed