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 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)		
2010	AVEXL12.9MLR	12.9	Diesel	8000		
SPECIAL	FEATURES & EMISSION C	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direct Dies	sel Injection, Turbocharge and Engine Control N	er, Charge Air Cooler, Module	Generator Set and 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		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.8	0.7	0.09	8	4	12

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.

This Executive Order hereby supersedes Executive Order U-R-015-0192 dated April 23, 2010.

Executed at El Monte, California on this ______d** day of July 2010.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

U-R-015-0192-1 Atlaehment Gli712000

Engine Family	1.Engine Code	2.Engine Model		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
AVEXL12.9MLR		F3BE9681A*E	532 @ 1900	253	NA	2350 @ 1400	351	NA	DDI, TC, CAC, ECM
AVEXL12.9MLR		F3BE9681B*E	494 @ 1900	224	NA	2200 @ 1400	246	NA	DDI, TC, CAC, ECM
AVEXL12.9MLR		F3BE9681C*E	449 @ 2100	203	NA	2000 @ 1400	246	NA	DDI, TC, CAC, ECM
AVEXL12.9MLR		F3BE9681D*E	405 @ 2100	182	NA	1850 @ 1400	228	NA	DDI, TC, CAC, ECM
AVEXL 12.5WE	the section of the contract designation of the contract of the	, p. a. a special property of the special state of						The state of the s	provinces of the contract of the Market September 19 and the Contract of the C