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)		
2010	AKLXL060.AAB	60.0	Diesel	8000		
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Direct Dies	el Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Mine Truck			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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 (%)		
			НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL.	N/A	N/A	N/A	N/A	0.17	N/A	N/A	N/A
		CERT			6.0	1.1	0.10	15	5	21

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 _____/5___ day of September 2009.

amut Alter

Annette Hebert, Chief Mobile Source Operations Division

Attachment 1 af 1

Engine Model Summary Template

U-R-005-0344

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		9.Emission Control Device Per SAE J1930
AKLXL060.AAB	2763:FR6617	SSDA16V160E	2700@1900	537	918	7840@1500	561	757	"DDI,ECM,TC, CAC
AKLXL060.AAB	2763:FR6618	SSDA16V160E	2500@1900	499	853	7257@1500	517	698	"DDI,ECM,TC,
AKLXL060.AAB	2766:FR6613	SDA16V160E-2	2000 @ 1800	428	693.5	6169 @ 1500	448	603.7	"DDI,ECM,TC,
AKLXL060.AAB	2766:FR6634	SDA16V160E-2	1875 @ 1800	401	648.5	6169 @ 1500	448	603.7	"DDI,ECM,TC,
AKLXL060.AAB	2794:FR6623	SDA16V160E-2	1782 @ 1900	369	630	6274 @ 1500	452	610.3	"DDI,ECM,TC,
AKLXL060.AAB	8593:FR6471	SSDA16V160E	2700@1900	542	926	7840@1500	561	757	"DDI,ECM,TC,
AKLXL060.AAB	3451:FR6746	SSDA16V160E	2500@1900	517	882.8	7257@1500	537	725.6	"DDI,ECM,TC,
AKLXL060.AAB	3378:FR6732	SDA16V160E-2	1782@1900	371	634	6274@1500	465	627.1	"DDI,ECM,TC,
AKLXL060.AAB	3378:FR6829	SSDA16V160E	1892@1800	405	657.0	6277@1500	462	624	"DDI,ECM,TC, ¥