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)
2008	8KLXL23.2FD7	23.2	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
Direct Dies	el Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Generator and Other Indu	strial 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	EXHAUST (g/kw-t	nr)		OF	PACITY (%	b)
POWER CLASS	STANDARD CATEGORY		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
		CERT			5.7	0.6	0.09	15	4	19

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 November 2007.

Annette Hebert, Chief Mobile Source Operations Division

Andument Ray (af (Engine Model Summary Template

4-R-005-0294

Engine Family	1.Engine Code	Engine Family 1.Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels 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: (tbs/hr)@peak torque	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930
3KLXL23.2FD7	2C01	SA46D170E2-3	950@2100	471	332	2897@1400	562	265	EM, ECM,TC,CAC,DFI
3KI.XL23.2FD7	2C04	SAA6D170E2-3	860@1800	492	298	2676@1350	518	236	EM, ECM,TC,CAC,DFI
3K_XL23.2FD7	2C06	SAA6D170E2-3	760@1800	440	265	2564@1350	495	224	EM, ECM.TC,CAC,DF
8KLXL23.2FD7	2C03	SAA6D170E2-3	860@2100	426	301	2785@1400	530	249	EM, ECM, TC, CAC, DFI
3KLXL23.2FD7	2C05	SAA6D170E2-3	760@2100	387	270	2560@1350	495	222	EM, ECM, TC, CAC, DFI
8KLXL23.2FD7	2C02	SAA6D170E2-3	950@1800	550	330	2785@1400	542	244	EM, ECM,TC,CAC,DFI
SCEXL023.AAC	CPL2852FR50049	ask23-C	950@2100	471	332	2897@1400	562	265	EM. ECM.TC.CAC.DFI
SCEXL023.AAC	CPL2852FR50057	QSK23-C	860@1800	492	298	2676@1350	518	236	EM, ECM, TC, CAC, DFI
BCEXL023.AAC	CPL2858FR50059	QSK23-C	760@1800	440	265	2564@1350	495	224	EM, ECM,TC,CAC,DFI
8CEXL023.AAC	CPL2852FR50051	QSK23-C	860@2100	426	301	2785@1400	530	249	EM, ECM,TC,CAC,DFI
SCEXL023,AAC	CPL2858FR50053	askz3-c	760@2100	387	270	2560@1350	495	222	EM, ECM, TC, CAC, DFI
SCEXL023.AAC	CPL2852FR50055	QSK23-C	950@1800	550	330 -	2785@1400	542	244	EM, ECM, TC, CAC, DFI

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