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)
2011	BVEXL06.7SCA	6.7	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, and Selective Catalytic Reduction-Urea	Loader, Tractor, and Dozer

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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 560	Tier 4 – Alt NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	1.3	--	0.5	0.01	--	--	--

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).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

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 25 day of January 2011.

Annette Hebert

Annette Hebert, Chief
Mobile Source Operations Division

U-R-015-0219
Attachment
9/27/2011

Engine Model Summary Template

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	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BVEXL06.7SCA	F4HFE613T*A	F4HFE613T*A	268 @ 2100	128	N/A	863 @ 165	165	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613G*A	F4HFE613G*A	257 @ 2200	119.5	N/A	856 @ 1500	165	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613G*A	F4DFE613G*A	257 @ 2200	119.5	N/A	856 @ 1500	165	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE6131*A	F4HFE6131*A	245 @ 2000	126	N/A	959 @ 1300	180	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613H*A	F4HFE613H*A	243 @ 2200	113	N/A	826 @ 1500	159	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613H*A	F4DFE613H*A	243 @ 2200	113	N/A	826 @ 1500	159	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613U*A	F4HFE613U*A	235 @ 2100	115.5	N/A	778 @ 1500	149.17	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613J*A	F4HFE613J*A	232 @ 2200	109	N/A	798 @ 1500	152.99	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613J*A	F4DFE613J*A	232 @ 2200	109	N/A	798 @ 1500	152.99	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613X*A	F4HFE613X*A	227 @ 2000	115.5	N/A	873 @ 1300	164	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613K*A	F4HFE613K*A	217 @ 2200	103.5	N/A	752 @ 1500	144.08	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613K*A	F4DFE613K*A	217 @ 2200	103.5	N/A	752 @ 1500	144.08	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613W*A	F4HFE613W*A	227 @ 2000	115.5	N/A	739 @ 1500	141.67	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613V*A	F4HFE613V*A	208 @ 2100	102	N/A	682 @ 1500	130	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613P*A	F4HFE613P*A	204 @ 2100	100	N/A	673 @ 1400	129	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613L*A	F4DFE613L*A	202 @ 2200	97	N/A	708 @ 1500	135	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613B*A	F4DFE613B*A	197 @ 2200	94	N/A	673 @ 1500	129	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613Y*A	F4HFE613Y*A	194 @ 2000	100	N/A	701 @ 1300	131	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613R*A	F4HFE613R*A	190 @ 2100	94	N/A	627 @ 1400	120	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613A*A	F4DFE613A*A	188 @ 2200	90	N/A	639 @ 1500	122.5	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613C*A	F4DFE613C*A	173 @ 2200	83	N/A	597 @ 1500	114.5	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4DFE613D*A	F4DFE613D*A	158 @ 2200	76.3	N/A	547 @ 1500	105.8	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE6133*A	F4HFE6133*A	282 @ 2200	132	N/A	830 @ 1500	160	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613L*A	F4HFE613L*A	202 @ 2200	97	N/A	708 @ 1500	135	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613B*A	F4HFE613B*A	197 @ 2200	94	N/A	673 @ 1500	129	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613A*A	F4HFE613A*A	188 @ 2200	90	N/A	639 @ 1500	122.5	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613C*A	F4HFE613C*A	173 @ 2200	83	N/A	597 @ 1500	114.5	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE613D*A	F4HFE613D*A	158 @ 2200	76.3	N/A	547 @ 1500	105.8	N/A	EM ECM TC CAC SCR
BVEXL06.7SCA	F4HFE6139*A	F4HFE6139*A	217 @ 2200	102	N/A	709 @ 1500	132	N/A	EM ECM TC CAC SCR

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