



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	8KLXL15.2ED6	15.2	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Engine Control Module, Direct Diesel Injection, Turbocharger, Charge Air Cooler, Exhaust Gas Recirculation			Loader, Dozer 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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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):

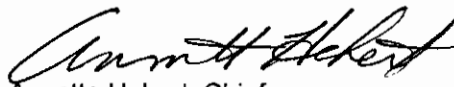
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.6	0.4	0.15	11	4	16

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 30 day of November 2007.


Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT B (of 1)
Engine Model Summary Template

U-R-002-0292

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:		5.Fuel Rate:		6.Torque @ RPM (SEA Gross)	7.Fuel Rate:		8.Fuel Rate: (lbs/hr)/@peak torque	9.Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	mm/stroke@peak torque	mm/stroke@peak torque					
8KXL15.2ED6	3C01	SAA6D140E-5	518@2000	270	181	1601@1400	326	153	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3C02	SAA6D140E-5	357@1900	204	128	1331@1250	279	116	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3C03	SAA6D140E-5	496@1800	281	170	1619@1350	322	146	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3C04	SAA6D140E-5	433@1800	251	150	1435@1400	290	130	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3C05	SAA6D140E-5	360@1900	205	130	1353@1300	285	123	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3C06	SAA6D140E-5	452@2000	238	160	1497@1400	303	143	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3C07	SAA6D140E-5	453@2000	243	163	1541@1400	316	149	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3C08	SAA6D140E-5	407@2000	225	151	1468@1400	305	144	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	6DTA15KCM-3	SAA6D140E-5	496@1800	281	170	1619@1350	322	146	EM,TC,CAC,EGR,DFI,ECM			
8KXL15.2ED6	3G01	SAA6D140E-5	578@1800	334	201	--	--	--	EM,TC,CAC,EGR,DFI,ECM			