



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)
2008	8SZXL07.8HXA	7.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation			Crane, Loader, 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.0	0.9	0.12	18	4	29

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 13 day of September 2007.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

U-R-006-0278

ATTACHMENT

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 J1933
8SZXL07.8HXA	6HK1XDHAA-01	AH-6HK1X	281.7@1900	159.3@1900	101.0@1900	829.8@1500	169.0@1500	84.6@1500	ECM,TC,CAC, DFI,EGR
8SZXL07.8HXA	6HK1XDHAA-02	AH-6HK1X	284.4@2000	153.4@2000	102.3@2000	829.8@1500	169.0@1500	84.6@1500	ECM,TC,CAC, DFI,EGR
8SZXL07.8HXA	6HK1XDHAA-03	AH-6HK1X	220.4@2000	116.2@2000	77.5@2000	723.5@1400	144.0@1400	72.0@1400	ECM,TC,CAC, DFI,EGR
8SZXL07.8HXA	6HK1XDHAA-04	AH-6HK1X	240.2@2000	126.7@2000	84.5@2000	753.8@1400	150.0@1400	75.1@1400	ECM,TC,CAC, DFI,EGR
8SZXL07.8HXA	6HK1XDHAA-05	AH-6HK1X	216.0@1800	125.1@1800	75.1@1800	693.3@1500	136.9@1500	68.5@1500	ECM,TC,CAC, DFI,EGR