



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)
2009	9SZXL15.7HXA	15.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation			Excavator, 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	0.8	0.17	17	8	30

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 29 day of September 2008.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

U-R-506-0312

ATTACHMENT

Engine Family	1 Engine Code	2 Engine Model	3 (BHP@RPM) (SAE Gross)	4 Fuel Rate (min@idle@max RPM) (lb/hr)	5 Fuel Rate (lb/hr) @ peak HP (for diesel only)	6 Torque @ RPM (SAE Gross)	7 Fuel Rate (min@idle@peak torque)	8 Fuel Rate (lb/hr)@peak torque/Devers Per SAE 119	9 Emission Control
9S2X115 7HX	6WG1XDHAA-01	AH-6WG1X	532.4@1800	304.1@1800	182.9@1800	1660@1500	340.4@1500	170.3@1500	EDM TC, CAC, EGR
9S2X115 7HX	6WG1XDHAA-02	AH-6WG1X	462.9@1800	268.3@1800	161.7@1800	1460@1500	291.3@1500	145.8@1500	EDM TC, CAC, EGR
9S2X115 7HX	6WG1XDHAA-03	AH-6WG1X	348.7@1800	204.9@1800	123.0@1800	1165@1500	245.6@1500	122.9@1500	EDM TC, CAC, EGR