



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)
2011	B9YXL12.7CAA	12.7, 9.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module and Smoke Puff Limiter, Selective Catalytic Reduction-Urea			Crane, Tractor, Dozer, Pump	

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 ≤ 560	Tier 4 ALT NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.02	1.9	--	0.5	0.02	--	--	--

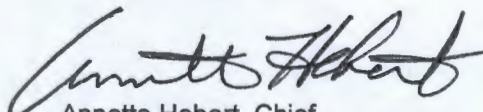
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

This Executive Order hereby supersedes Executive Order U-R-024-0011 dated March 24, 2011.

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 28 day of April 2011.


Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

U-R-024-0011-1

4/28/2011

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
B9YXL12.7CAA	DC13 070A	1950593	394	162	135	1591	240	114.3	DI, IS, SCR, CAC, ECM, SPL
B9YXL12.7CAA	DC13 070A	1950594	444	181	150.8	1663	246	126.9	SCR
B9YXL12.7CAA	DC13 070A	1950595	493	204	170	1750	259	133.6	SCR
B9YXL12.7CAA	DC13 070A	1941160	543	224	185.8	1887	284	157.8	SCR
B9YXL12.7CAA	DC09 070A	1948968	311	165.2	114.5	1235	232	147	SCR
B9YXL12.7CAA	DC09 070A	1948969	326	171.6	118.9	1291	237.35	94.35	SCR
B9YXL12.7CAA	DC09 070A	1920590	345	179.7	124.54	1328	247.28	98.3	SCR
B9YXL12.7CAA	DC09 070A	1948970	370	191.2	132.25	1381	257.92	102.53	SCR
B9YXL12.7CAA	DC09 070A	1920591	394	201.9	140	1451	261.6	104	SCR

SUPERSEDED