



SCANIA CV AB

EXECUTIVE ORDER U-R-024-0037  
New Off-Road  
Compression-Ignition Engines

Pursuant to the authority vested in California 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-14-012;

**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)
2019	KY9XL16.4DAA	16.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Smoke Puff Limiter, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst, Exhaust Gas Recirculation			Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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 (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ KW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.08	0.36	--	0.2	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).

**BE IT FURTHER RESOLVED:** The listed engine family is conditionally certified pending submission of additional Auxiliary Emission Control Device (AECD) and Infrequent Regeneration Adjustment Factor (IRAF) information. The manufacturer has until May 31, 2019 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

**BE IT FURTHER RESOLVED:** That the manufacturer has elected to include engine models in this engine family which are identified for "emergency equipment use only". These "emergency equipment use only" engines are exempt from requirements imposed pursuant to California law and the regulations adopted pursuant thereto for motor vehicle pollution control devices per California Vehicle Code Section 27156.2. The manufacturer must clearly label these engines for "emergency equipment use only" on the engines' emission control label.



CALIFORNIA  
AIR RESOURCES BOARD

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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 31<sup>st</sup> day of March 2019.

  
Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

SUPERSEDED

ATTACHMENT 1 OF 1

Engine ModelsEZ U-R-024-0037

12/18/2018

Engine Family	1.Engine Code	2.Engine Model	3.Dis- placement	4.Power kW @ RPM	5.Fuel Rate: mm/stroke @ peak HP	6.Fuel Rate: (lbs/hr) @ peak HP	7.Torque Nm @ RPM	8.Fuel Rate: mm/stroke @ peak torque	9.Fuel Rate: (lbs/hr) @ peak torque	10. Emission Control Device
KY9XL16.4DAA	DC16 084A	2722734	16.4	405 @ 2100	202	190	2944 @ 1200	294	158	DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX
KY9XL16.4DAA	DC16 084A	2668179	16.4	441 @ 2100	220	207	3070 @ 1300	306	178	DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX
KY9XL16.4DAA	DC16 084A	2722755	16.4	478 @ 2100	239	225	3138 @ 1400	314	197	DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX
KY9XL16.4DAA	DC16 084A	2722756	16.4	493 @ 2100	247	232	3192 @ 1400	320	201	DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX
Emergency:				@			@			
KY9XL16.4DAA	DC16 091A	2722758	16.4	405 @ 2100	202	190	2944 @ 1200	294	158	DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX
KY9XL16.4DAA	DC16 091A	2722759	16.4	493 @ 2100	247	232	3192 @ 1400	320	201	DDI, ECM, TC, CAC, EGR, SPL, SCR, AMOX

SUPERSEDED