

## **SCANIA CB AB**

**EXECUTIVE ORDER U-R-024-0045** 

New Off-Road Compression-Ignition Engines Page 1 of 1

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-19-095;

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)			
2021	MY9XL09.3DAA	9.3	Diesel	8000			
SPECIAL	FEATURES & EMISSION (	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Cooler, E Reduc	Direct Injection, Turbo Engine Control Module, tion-Urea, Ammonia Ox ust Gas Recirculation, I Catalyst	Selective Catalyst kidation Catalyst,	Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator Set				

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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
CLASS			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 <u>&lt;</u> KW <u>&lt;</u> 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.07	0.23		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).

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 on this 18th day of December 2020.

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

**Attachment: Engine Models EO #:** U-R-024-0045 Family: MY9XL09.3DAA Attachment Revised: 12/8/2020 Displacement -Peak Power - Peak Power -Peak Power -Peak Power -Peak Torque -Peak Torque -Peak Torque -Peak Torque -**Peak Torque** Model Code Trim Config Displacement Units **Peak Power** Speed (rpm) **Fuel Units** Units Speed (rpm) Fuel **Fuel Units** OBD GHG Special Units Fueling Notes 2133492 DC09 084A 15 9.3 202 kilowatt 2100 mm3/stroke 1603 N-m 1100 mm3/stroke Liters 161 263 2133493 DC09 085A Liters 232 kilowatt 2100 185 mm3/stroke 289 mm3/stroke 15 9.3 1785 N-m 1200 2133494 DC09 085A 15 9.3 Liters 243 kilowatt 2100 192 mm3/stroke 1827 N-m 1200 295 mm3/stroke 2133495 DC09 085A 15 9.3 Liters 257 kilowatt 2100 203 mm3/stroke 1830 N-m 1200 296 mm3/stroke 2488302 232 298 DC09 085A 15 9.3 kilowatt 1800 208 mm3/stroke 1848 1200 mm3/stroke Liters N-m 2133496 DC09 086A 15 9.3 Liters 276 kilowatt 2100 218 mm3/stroke 1873 1300 305 mm3/stroke N-m 2133497 DC09 086A 15 9.3 Liters 294 kilowatt 2100 238 mm3/stroke 1876 1400 311 mm3/stroke N-m 2245949 227 mm3/stroke DC09 087A 15 9.3 Liters 202 kilowatt 1800 176 mm3/stroke 1873 N-m 1200 2245951 227 DC09 089A 15 9.3 Liters 202 kilowatt 1800 176 mm3/stroke 1873 N-m 1200 mm3/stroke 2245952 DC09 089A 15 9.3 237 1800 211 mm3/stroke 1368 1100 234 mm3/stroke Liters kilowatt N-m