

SCANIA CB AB

EXECUTIVE ORDER U-R-024-0046

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	MY9XL12.7DAA	12.7	Diesel	8000			
SPECIAL	FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Cooler, E Reduct Exhau	Direct Injection, Turbo Engine Control Module, tion-Urea, Ammonia Ox ust Gas Recirculation, D yst (Except Engine Cod	Selective Catalyst kidation Catalyst, Diesel Oxidation	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			EXHAUST (g/kw-hr)					OPACITY (%)	
CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 <u><</u> KW <u><</u> 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.10	0.25		0.3	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 <u>26th</u> day of December 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment: Engine Models EO #: U-R-024-0046 Family: MY9XL12.7DAA **Attachment Revised:** 11/17/2020 Displacement -Peak Power - Peak Power -Peak Power -Peak Power -Peak Torque -Peak Torque -Peak Torque -Peak Torque -Config Displacement **Peak Torque** Model Code Trim Units **Peak Power** Speed (rpm) **Fuel Units** Units Speed (rpm) Fuel **Fuel Units** OBD GHG Special Notes Units Fueling DC13 084A 2722599 12.7 294 kilowatt 2100 mm3/stroke 2157 N-m 1200 mm3/stroke n/a Liters 202 289 2722600 DC13 084A 12.7 Liters 331 kilowatt 2100 229 mm3/stroke 2255 1300 301 mm3/stroke n/a N-m 2722601 DC13 085A 12.7 Liters 368 kilowatt 2100 249 mm3/stroke 2373 N-m 1300 312 mm3/stroke n/a 2722602 405 DC13 085A 12.7 Liters kilowatt 1900 291 mm3/stroke 2375 N-m 1100 317 mm3/stroke n/a 2245984 257 218 DC13 087A 12.7 kilowatt 1800 193 mm3/stroke 1600 1300 mm3/stroke n/a Liters N-m 2258254 DC13 087A 12.7 Liters 257 kilowatt 2100 179 mm3/stroke 1748 900 245 mm3/stroke n/a N-m 2245985 DC13 087A 12.7 Liters 283 kilowatt 1800 208 mm3/stroke 1765 1300 235 mm3/stroke n/a N-m 2245986 DC13 089A 12.7 mm3/stroke Liters 257 kilowatt 1800 193 mm3/stroke 1600 N-m 1300 218 n/a 2245987 DC13 089A 12.7 283 1800 212 mm3/stroke 1300 240 mm3/stroke Liters kilowatt 1765 N-m n/a