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|  | <b>MANITOWOC CRANES, NORTH AMERICA</b> | <b>EXECUTIVE ORDER N-2022-100-10</b><br>New On-Road Heavy-Duty Motor Vehicles<br>Equipped With Exempt Engines |
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Pursuant to the authority vested in the California Air Resources Board by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2;

Pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-19-095; and

Pursuant to the authority vested in the Executive Officer by Title 13, California Code of Regulations, (13 CCR) Section 1956.8(f)(1);

**WHEREAS** the engine required to propel the listed vehicle(s) is not available for sale in California for on-road use in the specified power rating;


**IT IS ORDERED AND RESOLVED:** That the motor vehicle produced by the manufacturer with a gross vehicle weight rating (GVWR) over 14,000 pounds is authorized to use the engine described below.

| ENGINE MANUFACTURER |                        | DAIMLER AG                    |                                 |                     |                  |                                 | * = not applicable  |
|---------------------|------------------------|-------------------------------|---------------------------------|---------------------|------------------|---------------------------------|---|
| ENGINE MODEL YEAR   | ENGINE EXECUTIVE ORDER | ENGINE FAMILY NAME (or MODEL) | ENGINE'S INTENDED SERVICE CLASS | ENGINE SIZE (liter) | ENGINE FUEL TYPE | ENGINE RATED POWER (horsepower) | ENGINE'S EXHAUST EMISSION CONTROL SYSTEMS & SPECIAL FEATURES  |
| 2021                | U-R-016-0148           | MMBXL12.8RJD                  | Off-Road                        | 12.8                | Diesel           | 523                             | Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Diesel Oxidation Catalyst, Exhaust Gas Recirculation, Selective Catalytic Reduction – Urea, Ammonia Oxidation Catalyst, Periodic Trap Oxidizer |

**BE IT FURTHER RESOLVED:** That this Executive Order is limited to the vehicles listed below:

| NUMBER OF VEHICLES | VEHICLE TYPE                     | VEHICLE MAKE & MODEL      | VEHICLE SERIAL NUMBER | ENGINE MODEL | ENGINE SERIAL NUMBER | EQUIPMENT SERIAL NUMBER |
|--------------------|----------------------------------|---------------------------|-----------------------|--------------|----------------------|-------------------------|
| 1                  | Mobile Crane (All Terrain Crane) | GROVE GMK5150L-1 (523 hp) | W09150544NWX12540     | OM471LA.E5-1 | 471.945-C-0678180    | 5150 4540               |

Executed on this 13<sup>th</sup> day of June 2022.

  
Allen Lyons, Chief  
Emissions Certification and Compliance Division