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Industrial trucks - Specification for inspection and maintenance

工业车辆 检查与维护规范

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting is required. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Technical Committee for Standardization of Industrial Trucks (SAC/TC 332). This document was drafted by: Beijing Hoisting and Conveying Machinery Design and Research Institute Co., Ltd., Anhui Heli Co., Ltd., Linde (China) Forklift Co., Ltd., Noli Intelligent Equipment Co., Ltd., Hangcha Group Co., Ltd., Ningbo Ruyi Co., Ltd., Beijing Ke Zhengping Engineering Technology Testing Institute Co., Ltd., Liuzhou Liugong Forklift Co., Ltd., Sany Robotics Technology Co., Ltd., Crown Equipment (Suzhou) Co., Ltd., Taiyuan University of Science and Technology. The main drafters of this document are. Bi Sheng, Zhao Chunhui, Ni Jingzhong, Zhang Jinxia, Ke Jiachang, Feng Ping, Wang Junhao, Fu Min, Wang Jun, Liu Qingrong, Li Hongyu, Jiang Hua, Xie Gang. Specification for inspection and maintenance of industrial vehicles

1 Scope

China's national specification for the inspection and maintenance of industrial trucks. A forklift is among the few machines that is both a workplace vehicle and a lifting appliance, and it is used harder than either category usually implies: multiple shifts, inexperienced operators, and a working life measured in tens of thousands of hours. Its critical components fail in ways that are detectable in advance and catastrophic if missed. The mast chains stretch and their links wear, and a chain failure drops the load; the forks themselves wear at the heel and can crack, and a fork that fails at load drops it on whoever is nearby; the hydraulics leak and lower a raised load slowly; and the tyres, the brakes and the steering are those of a vehicle carrying its load ahead of its front axle. The specification sets out what is checked daily by the operator and what is examined periodically by a competent person.

This document specifies the basic requirements for the inspection and maintenance of industrial trucks during use and describes the corresponding test methods. This document applies to counterbalanced forklifts, reach forklifts, side forklifts, leg forklifts, pallet forklifts, etc. Stacker and three-way stacker forklift. Other types of industrial vehicles are used for reference.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 18849 Brake performance and component strength for powered industrial vehicles

GB/T 27544 Electrical requirements for industrial vehicles

GB/T 36507-2023 Safety specification for the use, operation and maintenance of industrial vehicles

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 inspection Activities performed to determine whether the status of an industrial vehicle is normal.

Note. Inspections are divided into daily inspections and regular inspections.

3.2 daily inspection An inspection performed before the start of each work shift.

3.3 Periodic Inspection Inspections of industrial vehicles in use are carried out at prescribed intervals.

3.4 Maintenance Activities performed to maintain or restore industrial vehicles to their specified functions and safe state.

Note. Maintenance is divided into planned maintenance and unplanned maintenance. Maintenance work includes maintenance and repair.

3.5 Maintenance preventing maintenance To ensure the normal and safe operation of industrial vehicles, necessary Operation.

Note. Maintenance includes cleaning, lubrication, tightening, adjustment, replacement, etc.

3.6 Repair Activities to restore the functions of industrial vehicles by repairing or replacing damaged parts in response to damage or failure of industrial vehicles.