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ELECTRICAL INSPECTION

The condition of any machine depends on how well it is maintained and the timely replacement of its wear, strategic and consumption parts. This requires expert knowledge and ensures that a Siwertell ship unloader operates efficiently, with the longest possible service life.

Regular electrical inspections, carried out by a certified, experienced Siwertell surveyor, can efficiently and accurately assess its safety, condition and performance.

DESCRIPTION

Comprehensive electrical inspections are undertaken by specialist Siwertell surveyors. During an inspection, the entire electrical system is checked including motors, electrical power and signal supply, radio system, cables, and sensors. Electrical inspections are based on operator needs and the machine's condition. During an inspection visit, all essential unloader functions and movements are tested, along with sequences for the conveyor system. A review of the alarm history is also carried out, as well as an analysis of recurring alarms and trends. Defects are noted, as well as potential issues in the future and comments on maintenance and operational issues may also be included.

The electrical surveyor also checks the settings and parameters for the moulded case circuit breaker (MCCB), soft starters and variable frequency drives (VFDs). An insulation test of the
main drives with cables and a visual check of external apparatus is carried out. The air filters and cooling fans in the switchgear and transformer compartments are also covered. The inspection generates a full technical report and covers each part assessed and any requirements for special attention, maintenance, repair or upgrade. The description also includes recommendations for any further investigation, assistance or training needs, along with spare parts and guidance with regard to obsolete components or systems.

Electrical inspections take an average of three days per unloader and include a test run during operation, limit switches tests, and a visual and sound condition check of the main drives. It can also include optional extras such as a performance evaluation, which checks the unloader's current operational achievements against its design performance criteria and identifies potential

improvements.

BENEFITS

- Planned maintenance is significantly cheaper than unplanned.
- Work is carried out by expert Siwertell surveyors.
- Wear and tear can be attended to effectively and ensures fewer breakdowns.
- Service labor and spare parts can be planned well ahead of critical replacement dates, which will reduce costs.
- Investing in an inspection is paid for even if only a few days of downtime are avoided.
- Drive settings are precisely adjusted in accordance with a machine's design criteria.
- Equipment performance is improved by ensuring that machine settings are optimal and that the highest possible unloading/loading capacity can be maintained.
- The safety of the unloader is reviewed.

INSPECTION REQUIREMENTS

- Sky-lift with a 35m reach; to be arranged by the customer
- Personnel requirements: one electrician for support, one Siwertell surveyor
- Safety and personal protective equipment; customers are required to ensure that their personnel have appropriate safety equipment