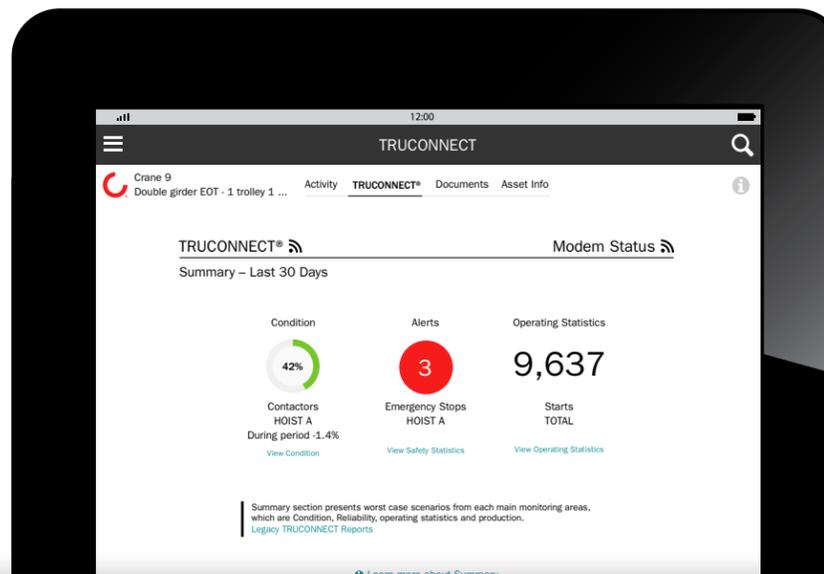


# TRUCONNECT DATA ON yourKONECRANES

TRUCONNECT usage data is viewable on our cloud-based customer portal – yourKONECRANES.com. If you have a maintenance agreement with us, your maintenance data and asset details from MAINMAN are also available on the portal, giving you a transparent view of events and activities over any selected time interval.

Aggregated data can be viewed, analyzed and shared quickly, for a single asset or an entire fleet. Insights can be drawn by observing anomalies, patterns and trends, helping you make informed maintenance decisions.



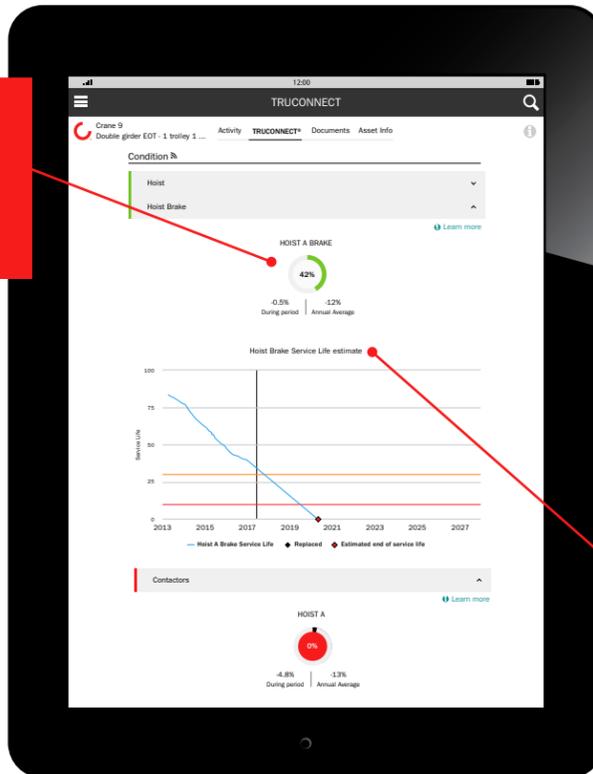
The **Summary** section contains the main items that require attention in each category. The shortest current service life of a component is retrieved from the Condition Monitoring section. Those values will change over time due to differences in the wear rate of components and different crane operating patterns, as these can significantly accelerate the wear rate. The effects of operation are described more closely in the Operating Statistics section.

The cumulative number of alerts in the review period is retrieved from the Alert section. Details are provided in the Pareto analysis of the alerts.

From the Operating Statistics section, the current most significant problem that could affect the safe operation or condition of the crane is added to the summary.

## CONDITION

The working period/DWP of a new hoist brake is expressed as 100%. The remaining working period/DWP of a used hoist brake reduces toward 0%.



The trend graph shows the remaining working period/DWP of the brake based on the operating history.

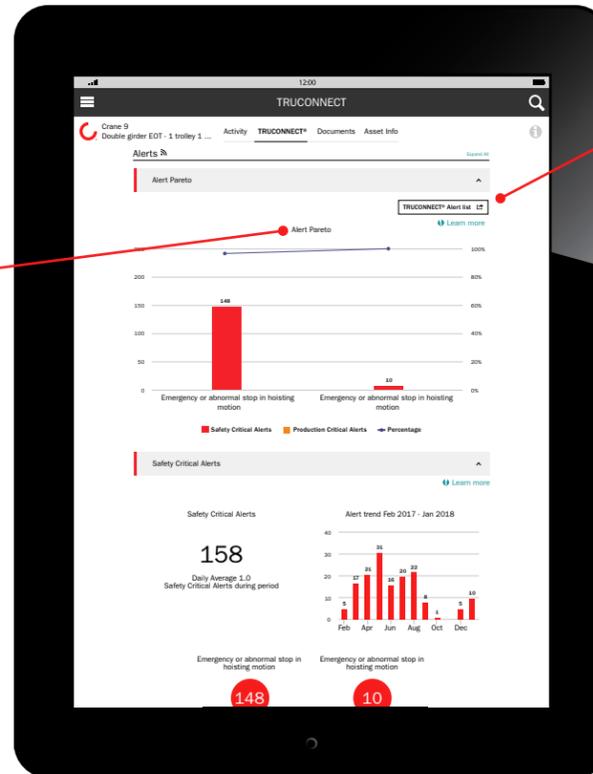
**Condition monitoring** shows the current condition of the components, any risks related to safety and production, and the estimated remaining service life based on the usage history.

Condition monitoring can also be used to check the component replacement frequency, which provides a clear indication of upcoming maintenance needs and how changes in the operator's actions affect the service life of components.

This information can be used to plan and schedule preventive maintenance in order to improve safety and reduce unplanned downtime.

## ALERTS

The Pareto analysis displays and ranks the most important causes of alerts related to safety and the usability of the crane. Alerts are ranked in the chart cumulatively from the most frequent to the least frequent alert.



The TRUCONNECT alert list shows all alerts in a select time period.

The impact of emergency stops on the brake wear percentage shows the effect of emergency/abnormal stops on the brake service life in addition to the hoist motor starts. The impact of a single emergency stop during lifting or lowering corresponds to 50 normal starts.

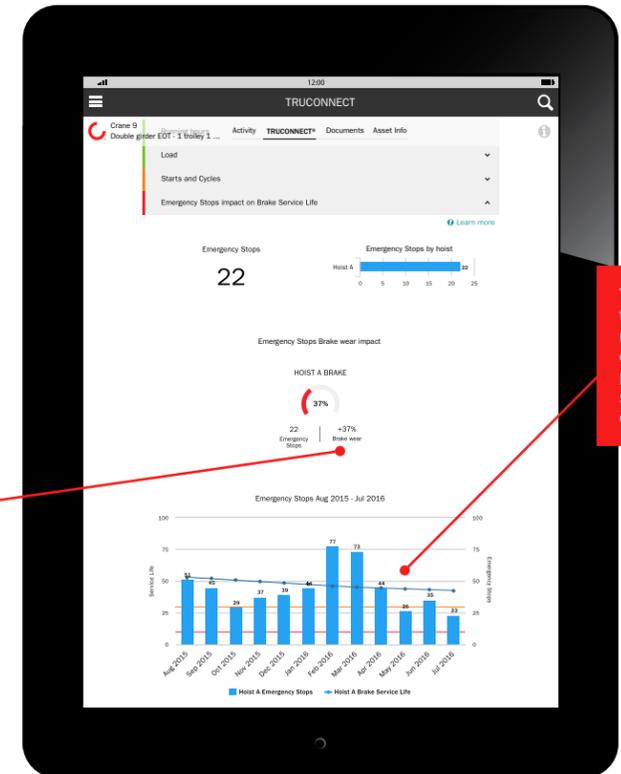
The **Alerts** section highlights safety critical alerts and production critical alerts.

Safety-critical alerts indicate a safety risk to the crane or its operation. Safety-critical risks can include emergency stops, overloading and brake faults.

Production-critical alerts indicate production risks that result in crane stoppage or production downtime. Production-critical risks can include motor overheating, inverter faults and control system faults.

## OPERATING STATISTICS

The graph shows the cumulative number of emergency stops per period and the service life trend of the brake.



**Operating Statistics** show how different crane operating patterns affect the safe operation and condition of the crane and the service life of critical components.

Operating patterns can significantly influence the service life and safety of individual components. This section also shows usage rate differences between different hoists and the subsequent differences in their remaining service life.

This section is designed to promote appropriate operation in order to achieve optimal results in terms of the safety, service life and maintenance costs of the crane investment.