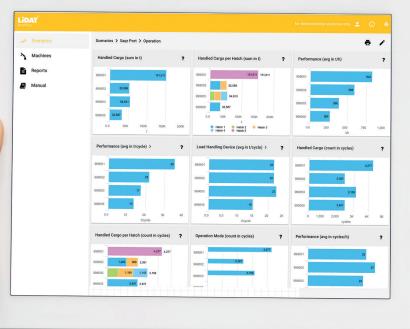Job Report

LiDAT smartApp & LiSIM

"What impressed us most was the extent of data that was available. This data has proved to be a valuable tool in improving our operational efficiency allowing us to hone our crane driver's skills via our onsite Liebherr simulator.

Through this innovative webapp, its features and comprehensive dashboards (KPI's) Liebherr has generated a high level of added value to our activities."

Dr. Adrian Pearson
Port Manager Saqr Port

LIEBHERR

LiDAT smartApp & LiSIM

Situation

Saqr Port is located at the northern tip of the United Arab Emirates, with access to the Arabian Gulf, and has established itself as the Middle East's major port for bulk cargoes, aggregates, pipes, cement, coal and other raw materials. Saqr Port is well-known for highly efficient material handling and premium infrastructure. The port's expertise has attracted additional business which has led to increased cargo volumes, over the past five years with extremely fast vessel turn around times. Saqr Port handles a vast array of materials with densities up to 2 t/m³ and loads on average five ships per day.

Task

Due to the rapidly growing handling volume and a simultaneously growing crane fleet, the port was looking for an effective solution to improve the management data to enable and increase the performance of the cranes and assist with managing the equipment fleet at the same time. The requirements were better planning of maintenance intervals, a good overview of the performance of individual crane operators and improved positioning of the crane in relation to the ship and the placement of cargo. The individual findings of the data analysis should also flow specifically into the individual training needs of the crane drivers. It was also important for Saqr Port that everything is combined in one application and that it is easy and intuitive to use.

Solution

The overloads occurring in bulk operation have been reduced to almost zero since smartApp can highlight these situations and define exactly when they occur. The analysis of the historical performance data has enabled Saqr Port to optimize the process and attain an improvement in turnover rates. This transparency allows targeted training on the LiSIM simulator to improve the drivers on performance and safety relevant weak points. After training has been completed, this becomes visible directly in the actual operation and has a very positive effect on overall performance.

Liebherr units equipped with LiDAT smartApp at Saqr Port

3x Mobile Harbour Crane LHM 500
3x Mobile Harbour Crane LHM 550
2x Mobile Harbour Crane LHM 800
1x LiSIM Simulator with LHM 550 training software