



CORROSCAN

PROTECT WITH **AIQ**

THE CHALLENGE



Corrosion is a major issue for the oil and gas industry; and identifying and detecting corrosion has proved to be demanding in terms of labor and expenses. Left undetected, corrosion will lead to serious safety concerns and environmental damage.

Corrosion Monitoring Locations (CMLs) are designated areas on pressure static equipment and piping where periodic external examination is conducted in order to directly assess the condition of the equipment and piping.

CMLs may contain one or more examination points and utilize multiple inspection techniques that are based on defined corrosion mechanisms to provide the highest probability of detection.



However, conventional inspection methodologies have been limited in predicting the corrosion behavior of individual CMLs, resulting in numerous unnecessary inspections.

It is therefore critical to design and develop prediction models of corrosion for prevention and control. Conventional inspection methodologies do not predict corrosion behavior of individual CMLs due to massive data generated, and the complexity of the variables in the process.

Significant time is necessary for inspection, data gathering, and analysis, which can lead to costly, time-consuming, and sometimes unnecessary inspections.

THE SOLUTION



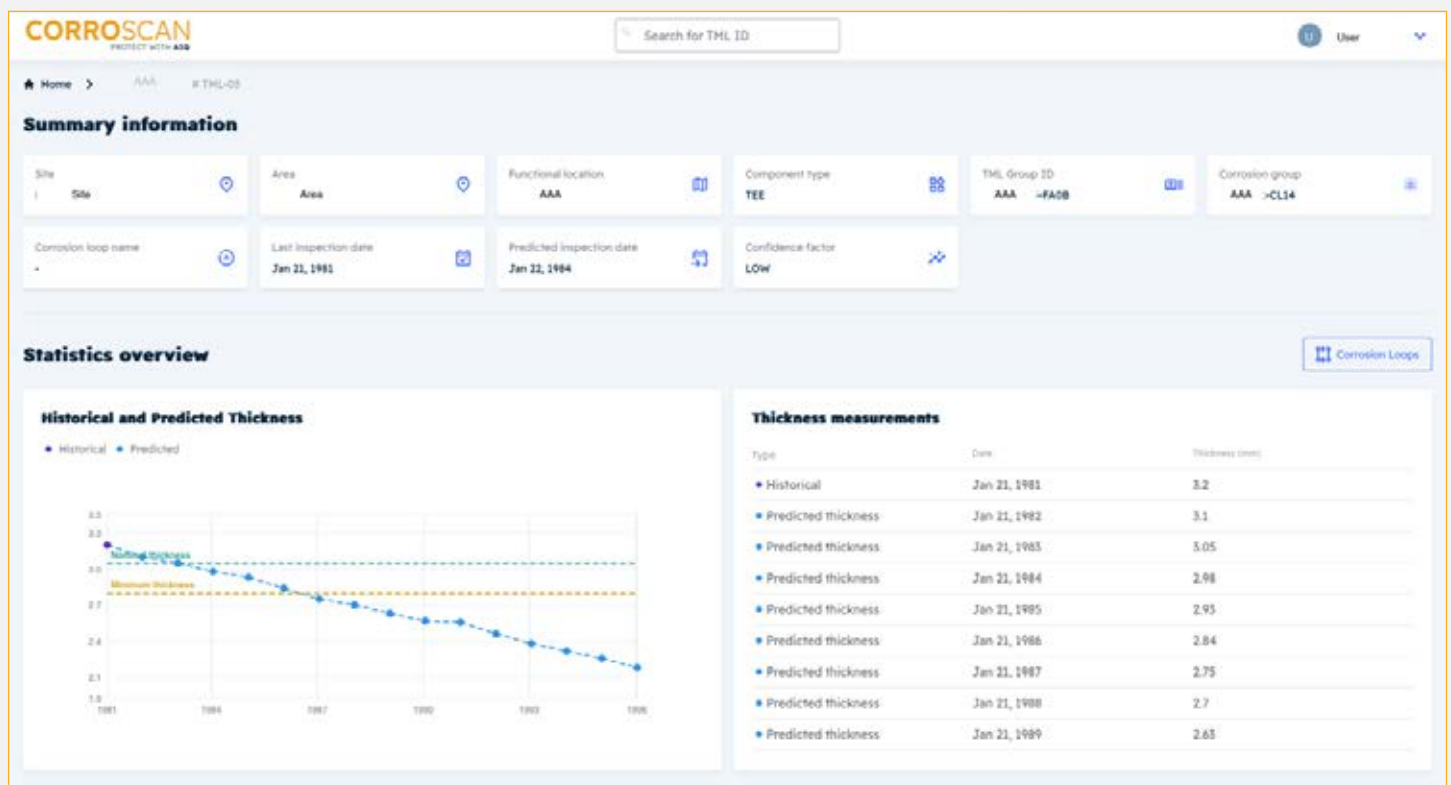
CORROSCAN gathers real-time and historical environmental, operational, and inspection data to support the monitoring of corrosion growth at individual locations.

Applying analytics and modeling to this data, forecasts of future corrosion rates can be made, allowing for the optimization of inspection frequency.

The application helps optimize CML inspection intervals and OPEX, while streamlining the inspection process in order to achieve higher efficiency.

The solution is integrated with the Meridium asset performance monitoring (APM) inspection database, featuring incoming live daily CMLs.

Through CORROSCAN, overall plant safety is enhanced, with the added ability to predict the next inspection date, all visualized on a dynamic smart dashboard.



CORROSCAN

PROTECT WITH **AIQ**



Provides geo-referenced insights about corrosion type or metal loss, helping predict corrosion growth and enabling faster and more accurate remediation



HIGHER INSPECTION DATA INTEGRITY

The application allows real-time and accurate corrosion prediction results, enabling relevant asset owners to accurately report corrosion occurrences, providing robust evaluations accordingly.



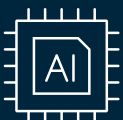
TIMELY AND ACCURATE REPORTING

CORROSCAN improves inspection data integrity by automatic detection of errors, resulting in early detection of anomalous trends in material loss, thereby reducing employees' time spent on data processing.



IMPROVE STAFF EFFICIENCY

The AI-driven data analytics solution optimizes inspection activities and OPEX costs, which improves organizational efficiency. CORROSCAN improves the precision of inspection schedules, which reduces inspection scopes by 35% to 40+%.





DISCLAIMER

This booklet contains numerical data that has been sourced from our esteemed clients. It is important to note that these figures are provided in the context of their respective business operations and have been shared with us for the purpose of this booklet.

Please be aware that client-sourced data can be subject to various factors that may influence its interpretation.

COPYRIGHT ©2024 ALL RIGHTS RESERVED