

Bulk Scale Analysis (BSA™) Helped Digitize Aker BP's Scale Management

INTRODUCTION

 BSA^TM is used by many operators worldwide to monitor the amount and type of inorganic scale particles in produced water. This is based on statistical ESEM/EDX analysis of up to 1000 randomly chosen particles deposited onto filter samples when filtering produced water samples.

The results can be trended over time as a scale inhibition performance indicator. BSA $^{\text{TM}}$ is used as an early warning and key parameter in the operators' scale management process, together with e.g., scaling ion concentrations, productivity index and scale inhibitor concentration.

THE PROBLEM

Very often results from different production chemistry related laboratory analyses are reported to operators as PDF documents. The data is then manually typed or copied by their personnel into other operator specific Excel spreadsheets or databases.

This may cause erroneous data being added into these spreadsheets and databases due to mistyping of values. This can be followed by a risk of misinterpretation and non-optimal decisions. This manual process is also time consuming.

THE SOLUTION

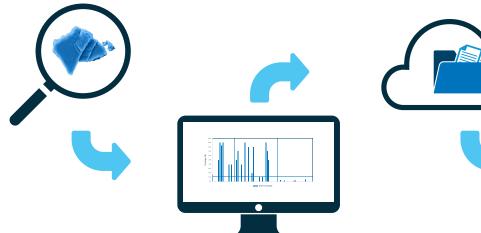
The Norwegian operator Aker BP strive for seamless and automated data transfer from vendors into an internal data management software. Different dashboards and trend plots are available to provide their chemists and engineers with a holistic overview of their overall production chemistry and flow assurance status.

Aker BP approached Scale Protection and requested a solution to be developed for seamless export/import of data from the BSA™ reporting cloud service into Aker BP's data management system.

THE RESULT

Scale Protection and Aker BP's IT vendor collaborated on establishing an API between the two systems, where BSA^{TM} data is collected at set time intervals throughout the day.

The results from each BSA™ analysis is reported to the BSA™ cloud, and then directly imported into Aker BP's data management software. There it is presented to their chemists and engineers by intuitive trend plots and dashboards together with their other monitoring parameters. This has resulted in a lower risk of error and increased efficiency for Aker BP.





Process from analysing the particle's scale type to processing and migration of data into Aker BP's data management system.

CUSTOMER AKER BP LOCATION NORTH SEA AND NORWEGIAN SEA, NORWAY PRODUCTION TYPE
OFFSHORE OIL

SCALE PROTECTION SERVICE
BULK SCALE ANALYSIS (BSATM)