

Case study: North America

ALCHEMIA contaminant removal solution removed contaminants from jet fuel and gasoline

A major oil company in North America was experiencing haze in a 140,000 barrel tank of finished jet fuel, resulting in a failure to meet MSEP standards for clarity. Selling the jet fuel as is would have resulted in a loss of over \$1.2 million USD. Baker Hughes was consulted to investigate the source of haze and offer solutions to help solve the problem. It was found that the fuel was contaminated by water and could be clarified to meet the “bright and clear” MSEP standard using filtration.

Baker Hughes recommended ALCHEMIA™ contaminant removal solution to filter the jet fuel as it was transferred to a clean fuel storage tank. The team delivered a customized on-site filtration

unit to ensure the jet fuel met the MSEP standards and to prevent any losses from selling off-grade product.

The same company observed that a tanker of 250,000 barrels of finished gasoline was contaminated with paraffin particulates. Baker Hughes performed diagnostics and determined that the source of the paraffin contamination was a previous shale oil shipment used by the same tanker. It was suggested that the gasoline be filtered as it was unloaded from the tanker into a storage tank. After filtration, the gasoline contaminants were removed, saving the company \$700,000 USD.

Challenges

- Particulates contaminated 250,000 barrels of finished gasoline in a tanker
- Jet fuel did not meet MSEP standards for clarity

Results

- Filtered jet fuel to ensure it met the “bright and clear” MSEP standard, saving \$1.2 million USD
- Saved an additional \$700,000 USD by filtering the gasoline as it was unloaded to remove any contaminants

