



Kerosene Pump Around Loop

Gulf Coast Refinery, USA

Problem

Crude oil feedstock entering the refinery is loaded with high volumes of black powder contaminants. The entire unit was experiencing issues with black powder building up and plugging the suction screens in front of pumps.

Solution

Deploy a magnetic separator on the kerosene pump around loop to protect the pump.

Result

During a recent cleaning, the magnetic separator system protecting Pump 104 had collected not only black powder, but a group of piping knockouts from a recent facility upset. Had they entered the pump impeller and become stuck, the facility would have had to replace the pump resulting in lost product on unplanned maintenance.



Black powder collected after six weeks of operation.

Application Data

Operating Fluid	Kerosene
Operating Temperature	450° F
Max. Flow Rate	1500 gpm

