



Filtration Solution for Major US Lube Oil Packager

PROBLEM

FTC was approached by a major US oil packager that needed to meet customer specifications for fluid cleanliness with their finished lubricating oils. The operator was facing strict specifications with both minimum and maximum filter retention and efficiency defined. The output of the operator's plant had precise time constraints during load out, so throughput could not be impacted on this project. As a high efficiency operating location, top level automation was involved to minimize operator interface. Therefore, a highly engineered filtration system was required to meet the customer's needs for this contract.

ANALYSIS

FTC and our local distributor met with the client engineer and toured the site. The existing filter setup was a traditional No. 2 bag housing utilizing unrated nominal



bag filters. The filter bag was being run at an extremely high flux rate. Additionally, the operator was experiencing a drop in overall process efficiency through time lost during frequent and messy element changeouts.

SOLUTION

After touring the site and discussing the customer's process goals and requirements, FTC and its distributor suggested a multi-bag housing using highly efficient 99.98% media and Sieva 600HT Series pleated bags. This would allow the filter to operate at the proper flux rate while also achieving the required fluid cleanliness. Additionally, a custom-engineered, fully automated modular skid filtration system with spill containment, I/O interface, pneumatic valves, and blow-down capabilities was designed to meet the client's needs. The client was involved in all aspects of the design, and care was taken to address all concerns from the design phase through final commissioning.

RESULTS

The final package delivered to the client included a complete turnkey skid unit that could be quickly set and tied into the client's piping and I/O for immediate operation. For the client, this unit allowed for automated

operation and extended filter life while achieving their customer's specs for the product. The client was pleased with the final results and plans to install FTC's filter modules at their other plants to meet program objectives.

SIEVA 600HT SERIES

FTC's Sieva 600 HT Series bag filter elements are designed for high temperature applications or applications with hydrocarbons in the fluid stream. Combining this design with the technique of pleating several filter media layers together in a single pleat pack maximizes dirt holding capacity. The Sieva 600HT Series bag is designed to seal inside FTC Sieva bag housings without equipment modification. It is available with different filter media options to deliver optimal performance even under the most challenging conditions, ensuring process reliability.

Sieva 600 HT Series elements provide significantly greater dirt holding than standard non-pleated bag filters and are ideal for high temperature bag filter applications. Their simple installation and extraction make Sieva 600 HT elements especially operator friendly, and unlike standard bag filters, Sieva 600 HT elements drain trapped liquid and minimize residual fluid in the filter and housing. O-ring seals ensure positive capture of contaminants, and fixed pore media prevents particle unloading. With Sieva 600 HT elements, operators can rely on absolute rated media for reliable results in any critical application.

ABOUT FTC

Since 1987, Filtration Technology Corporation (FTC) has built a reputation for developing and delivering innovative products at the forefront of filtration technology. We engineer and deliver the highest quality process solutions, training, testing, and cutting-edge technology with unparalleled service and support. Through the ongoing development of new, game-changing products, FTC continually redefines success for our customers.