Schroeder Industries Adds Filtration Station to Boiler Water Feed Pump Lube System

Background

ISO regulations mandate a fluid ISO code of 16/14/12 or better in Boiler Water Feed Pump Lube Systems. A customer contacted Schroeder and expressed concerns in regards to their 400 gallon tank's ISO code contamination level of 19/18/16.

Solution

It was determined that use of an FS Filtration Station as a kidney loop system on the reservoir was the best solution.

Specifications

<table>
<thead>
<tr>
<th>Type of Machinery:</th>
<th>Boiler Water Feed Pump Lube System</th>
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<tbody>
<tr>
<td>Fluids Addressed:</td>
<td>Water</td>
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<tr>
<td>Schroeder Product:</td>
<td>FS Filtration Station</td>
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</tbody>
</table>

Results

With an FS Filtration Station in place and after two hours of running the fluid through the kidney loop at 9 gpm, the ISO code dropped to 15/13/10.

Lowering the fluid cleanliness by four (4) ISO classes resulted in an increased bearing life expectancy of up to a factor of two (2).

Additional Benefits

- A Contamination Sensor (TCM) and a Water Sensor (TWS) are standard equipment on the FS Filtration Stations. These both provide ISO code and water saturation readouts while fluid is being filtered.
- A target ISO code can be programmed into the FS Filtration Station to stop the unit automatically after target code is reached.
- The FS Filtration Station includes two (2) filter housings (choice of 18” or 27”), for staged filtration. This results in a high Beta rating and high dirt holding capacity.
- The FS Filtration Station gives the choice of 1µm, 3µm, 5µm, 10µm, 25µm and water absorbing elements.
- The standard flow rate is 9 gpm. Variable 3-8 gpm options for fluids up to 1000 SUS viscosity are also available.