

Application Bulletin

POWER GENERATION



Application

Today's OEM steam turbine manufacturers require systems and sub-systems designed to simplify maintenance procedures as much as possible (filtration key features : filter size envelope, turbine reliability and operating availability, ease of filter changeout, etc).

The main lube system off-line filter is critical to ensure long, reliable service life of the turbine. During commissioning, $\beta_{5(c)} > 1000$ filters are used to flush out the hydraulic/lube circuits

System Operating parameters:

Fluid: ISO 32 or 68 Mineral oil
 Pressure: 10 bar (145 psi)
 Flow: 1500 L/min (396 USgpm)
 Max Temp: 50°C (92°F)

Problem

Deliver a cost-effective design for a high flow duplex filter that will:

- Achieve ISO 4406 code 17/15/12 cleanliness during commissioning and general operation
- Provide 12-18 month filter element life

Solution

Single element fabricated duplex vessel fitted with a Pall Ultiplex® SRT UE619 series, 40" length, 'AS' ($\beta_{12(c)} > 1000$) element grade

Results

- Fast commissioning using fine filtration and high dirt holding capacity filter elements
- Long service life and consistent fluid cleanliness levels
- Simple and safe handling; no interruptions to services during filter maintenance

Ultiplex® SRT filters protect steam turbine lubrication circuit



Pall Ultiplex SRT Duplex filter assembly

Contact us at www.pall.com