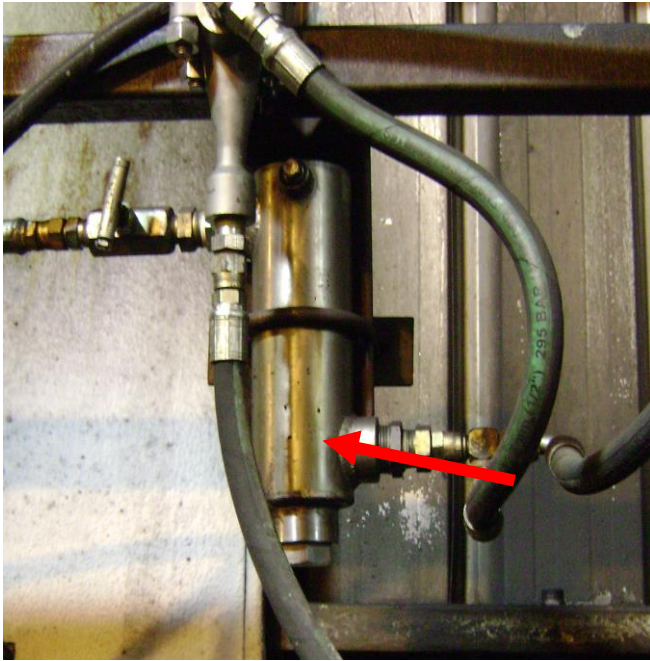


Case Study: Mechanical Seal Coolant  
Aug 2005 to June 2010

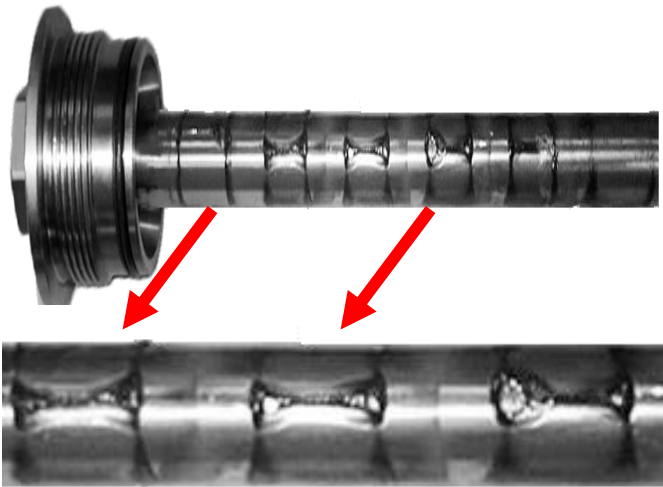
## EVRAZ Hot Rolling Mill, Regina Saskatchewan, Canada



**APPLICATION:** Coolant flush water for de-scale water pump mechanical seals.

**PROBLEM:** Failure of the mechanical seals due to premature wear from fine ferrous metal contamination that the traditional centrifuge filtration system for the coolant flush water was unable to remove.

**SOLUTION:** The OEI Distributor, Bearing and Transmission recommended replacement of the centrifuge filters with OEI High Pressure Magnetic Scrubbers (5SC12RCL) with the ability to filter to submicron levels without flow restriction. (Photo A)



**RESULTS:** “After 5 years of operation the magnetic filters are still working strong and have proven their value as the three mill scale pumps they were installed on have not had mechanical seal failure due to particulate wear contamination”, stated David Miltenberger the Maintenance Manager of Rolling and Finishing Operations.

The OEI magnetic filter is easily cleaned and the trapped contamination analyzed for component wear identification allowing predictive maintenance planning. For further information contact our office or visit our website [www.OneEyeIndustries.com](http://www.OneEyeIndustries.com).