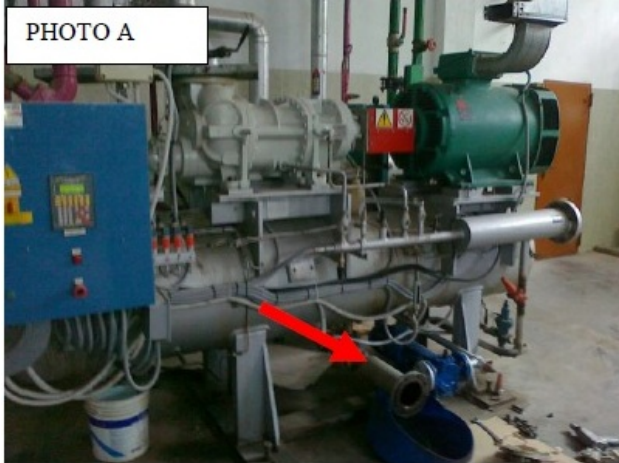


Case Study: Ammonia Compressor Lube Oil

Orto Verde, Senigallia Italy Frozen Food Packaging Plant



APPLICATION: Ammonia compressor lube oil pre-filtration system

PROBLEM: High levels of Black Powder (iron oxides derived from erosion) contamination in an Ammonia Compressor lube system causing filter clogging, premature wear of the compressor components, and reducing the lubrication capability and operational life.

SOLUTION: Alex Priori of Renox S.r.l. suggested installing an OEI magnetic separator (3RNC5812) in an existing Cone Strainer in the compressor pumps pre-filter lube oil system (Photo A) for a test to see what volume of contamination was in the system.

RESULTS: Photo B shows the significant amount of Black Powder contamination captured after 1800 hrs of operation. Engineer Mercuri, Plant Supervisor and Mr. Moretti, Head of Maintenance, were very impressed at the ability of the OEI magnetic separator to remove the contamination the existing filtration system was unable to do. Engineer Mercuri has directed installation of the OEI magnetic separator in the plants compressor lube oil systems. Testing is now being conducted on the Ammonia flow by installing OEI magnetic separators.

The OEI magnetic filter is easily cleaned and the trapped contamination can be analyzed for component wear identification, allowing predictive maintenance planning. For further information, contact our office or visit our website www.oneeyeindustries.com.