

Heat exchanger failure investigation report



Filesize: 2.94 MB

Reviews

Absolutely essential go through publication. This can be for all who statte there was not a worthy of looking at. Its been printed in an remarkably basic way and it is just right after i finished reading this book through which in fact altered me, modify the way i think.

(Dr. Haskell Osinski)

HEAT EXCHANGER FAILURE INVESTIGATION REPORT



To get **Heat exchanger failure investigation report** PDF, remember to refer to the link below and save the file or gain access to other information which might be in conjunction with HEAT EXCHANGER FAILURE INVESTIGATION REPORT ebook.

GRIN Verlag GmbH Mrz 2014, 2014. Taschenbuch. Book Condition: Neu. 211x149x5 mm. This item is printed on demand - Print on Demand Neuware - Technical Report from the year 2013 in the subject Materials Science, grade: B, Robert Gordon University Aberdeen, course: MSc Oil and Gas Engineering, language: English, comment: Well Done! , abstract: A high pressure gas cooler located in an offshore platform have been operating for more than 10 years. Throughout that period the gas cooler have been subjected to several tube failures, the failures have caused gas leak from the tube side. Several materials upgrades have been used to contain the tube failure. The last choice was to use a more corrosion resistant material Hastelloy C22. Crevice corrosion has been reported as the primary failure mechanism. The tube and tube plate joined surfaces have been exposed to high temperature which is relatively higher than the critical crevice temperature of Hastelloy C22. There was a poor heat transfer between the shell side fluid and tube side due to a small heat transfer area and low fluid velocity in the affected zone. Stress corrosion and fatigue corrosion accounted for the secondary failure mechanism which ultimately caused a crack in the tubes. Other possible reason identified to cause crevice corrosion was the mechanical rolling expansion technique. Oftentimes it creates rear crevices on the tubes with enough geometry to develop crevice chemistry. Mitigation methods such as hydraulic expansion technique, heat treatment for residual stresses and baffle design enhancements have been proposed in this report. Key words: shell and tube heat exchanger failure; Hastelloy C22 material; tube failure; localized corrosion; crevice corrosion; internal pitting corrosion 24 pp. Englisch.



[Read Heat exchanger failure investigation report Online](#)



[Download PDF Heat exchanger failure investigation report](#)



[Download ePub Heat exchanger failure investigation report](#)

You May Also Like



[PDF] Psychologisches Testverfahren

Follow the hyperlink below to download "Psychologisches Testverfahren" PDF document.

[Read Document »](#)



[PDF] Programming in D

Follow the hyperlink below to download "Programming in D" PDF document.

[Read Document »](#)



[PDF] Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird

Follow the hyperlink below to download "Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird" PDF document.

[Read Document »](#)



[PDF] New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond

Follow the hyperlink below to download "New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond" PDF document.

[Read Document »](#)



[PDF] Adobe Indesign CS/Cs2 Breakthroughs

Follow the hyperlink below to download "Adobe Indesign CS/Cs2 Breakthroughs" PDF document.

[Read Document »](#)



[PDF] The Java Tutorial (3rd Edition)

Follow the hyperlink below to download "The Java Tutorial (3rd Edition)" PDF document.

[Read Document »](#)

**[PDF] No Friends?: How to Make Friends Fast and Keep Them (Paperback)**

Follow the hyperlink beneath to read "No Friends?: How to Make Friends Fast and Keep Them (Paperback)" document.

[Download Document »](#)

**[PDF] Cello Concerto, Op. 104 / B. 191: Study Score (Paperback)**

Follow the hyperlink beneath to read "Cello Concerto, Op. 104 / B. 191: Study Score (Paperback)" document.

[Download Document »](#)

**[PDF] The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program (Paperback)**

Follow the hyperlink beneath to read "The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program (Paperback)" document.

[Download Document »](#)

**[PDF] Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities (Paperback)**

Follow the hyperlink beneath to read "Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities (Paperback)" document.

[Download Document »](#)

**[PDF] Peppa Pig: School Bus Trip - Read it Yourself with Ladybird**

Follow the hyperlink beneath to read "Peppa Pig: School Bus Trip - Read it Yourself with Ladybird" document.

[Download Document »](#)

**[PDF] Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)**

Follow the hyperlink beneath to read "Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)" document.

[Download Document »](#)