

**Ataliba Miguel**

## Heat exchanger failure investigation report

**Technical Report**

# Heat Exchanger Failure Investigation Report

**Michael Hoelscher**



## Heat Exchanger Failure Investigation Report:

Heat Exchanger Failure Austin Mwana, 2018-06-11 Academic Paper from the year 2018 in the subject Engineering Metal Processing Metal Structure grade B Robert Gordon University Aberdeen course Oil and Gas Engineering language English abstract As a Corrosion Expert this report centred around the failure investigation of a shell and tube heat exchanger due to corrosion mechanisms The different types of corrosion its effect resulting to the failure and possible solutions and recommendations were submitted to the client for further action The report also sheds light on the alloys used for the design and better alternatives to be used to prevent future degradation of the shell and tube heat exchangers

**Heat exchanger failure investigation report** Ataliba Miguel, 2014-03-10 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 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 *Interior, Environment, and Related Agencies Appropriations for 2018* United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies, 2017 **DP**, 1962 Scientific and Technical Aerospace Reports, 1995 *Fossil Energy Update*, 1978 *Energy Research Abstracts*, 1990 **Technical Reports Awareness Circular : TRAC.**, 1987

**Nuclear Science Abstracts**, 1976-05 **Nuclear Safety**, 1977 Nuclear Regulatory Commission Oversight United States. Congress. Senate. Committee on Environment and Public Works. Subcommittee on Clean Air, Wetlands, Private Property, and Nuclear Safety, 1999 *Geothermal Energy Update*, 1976 Proceedings of the 3rd International Gas Processing Symposium Abdelwahab Aroussi, 2012-06-19 Proceedings of the 3rd International Gas Processing Symposium CopyrightPage List of Contents Preface International Technical Committee Members Reviewers Exercising the Option of CO2 Slippage to Mitigate Acid Gas Flaring During SRU Expansion Bellow Failure Abstract 1 Introduction 2 Methodology to

minimize Acid Gas Flaring 3 Conclusion Flare Reduction Options and Simulation for the Qatari Oil and Gas Industry Abstract  
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Toshio Hattori, 2023-12-26 This book provides a comprehensive overview of the mechanical distinctions between fretting damage under axial or bending external forces and fretting damage under a torsional load It emphasizes the importance of studying practical accident cases to efficiently acquire technical skills The book is structured around the fundamental technologies of material science tribology and mechanics which are vital for understanding and addressing technical issues The author has incorporated all fretting countermeasure technologies which were previously often sensory and empirical in nature and repositioned them as technologies grounded in fundamental principles The book proposes an economical approach to product operation that maintains reliability by integrating not only design technology but also maintenance practices It delves into specific materials such as titanium alloys and aluminum alloys which have seen increased use for weight reduction in industries like aerospace In this book Critical Distance Stress Theory that can easily derive the fatigue limit and fatigue life of the stress singular field at the contact edge was presented As a result the fretting fatigue strength and life can be predicted from the same FEM stress analysis as the normal stress concentration part And finally introducing a novel fretting mechanical model the book focuses on scenarios where pressure force  $N$  and repeated tangential force  $F$  are applied to two planar objects with the tangential force being transmitted solely through friction at the contact surface This model finds relevance in turbine blade connection structures among other applications The author references Asai's research example which encompasses fretting mechanical analysis fretting wear evaluation fatigue assessment and structural damping evaluation using this model

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