

Ataliba Miguel

Heat exchanger failure investigation report

Technical Report

Heat Exchanger Failure Investigation Report

AW Rasmussen



Heat Exchanger Failure Investigation Report:

Heat Exchanger Failure Austin Mwana,2018-06-11 Academic Paper from the year 2018 in the subject Engineering Metal 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

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In a global inundated with displays and the cacophony of instant connection, the profound energy and emotional resonance of verbal art usually fade in to obscurity, eclipsed by the continuous assault of noise and distractions. Yet, located within the musical pages of **Heat Exchanger Failure Investigation Report**, a charming function of fictional elegance that pulses with raw feelings, lies an unforgettable journey waiting to be embarked upon. Published with a virtuoso wordsmith, that interesting opus manuals readers on an emotional odyssey, delicately revealing the latent potential and profound affect stuck within the delicate web of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is central subjects, dissect its interesting writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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