



Abstract

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Title

39-1 Case Study of a Bearing Failure Analysis

Summary

The analysis of bearing failures is very time-consuming and expensive because different interdisciplinary fields like oil grade, hydro-dynamic bearing calculation, service conditions, fatigue of material, foundation design and compressor alignment must be taken into account.

In the presented report the course of action is shown exemplarily for the investigation of bearing failures at a NEA compressor, type 1 SVL 320. The case study will show the options and limits of SEM (scanning electron microscope) investigations for analyzing bearing failures and present technical measurement options to check and verify the geometric installation of a compressor.