

PRESENTATION TYPE: Oral

CURRENT TOPIC: Failure Analysis - Ferrography

TITLE: Ferrography Case Study

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Body: The purpose of this presentation is to outline the uses and benefits of ferrography analysis in the area of condition monitoring and failure analysis. The presentation details how the diagnostician assesses a sample and returns a diagnosis. An explanation of the various heat treatments, acid & base treatments, along with recognising the various metals and alloys, is offered and presented. Where ferrography fits into an analysis suite, including what triggers justify performing this analysis, are detailed along with how a ferrography investigation can compliment existing analyses. The case study ultimately attempts to illustrate how ferrography can be used as a high end investigative tool in failure analysis.

KEYWORDS: Maintenance:Oil Condition Monitoring, Maintenance:Equipment Monitoring, Failure Analysis: Ferrogrpahy, Metallurgy, Materials Analysis.