

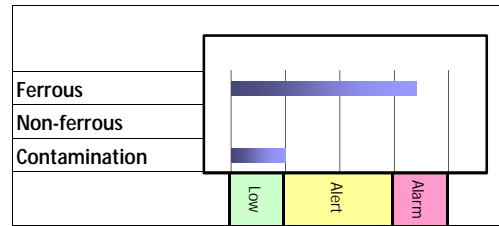
ANALYSTS, INC.

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ANALYTICAL FERROGRAPHY REPORT

Condition Summary

STATUS: **ABNORMAL** ON 3-Oct-08



ANALYSTS FIELD EXAMPLE RPT
INDUSTRIAL APPLICATIONS
Analytical Ferrography

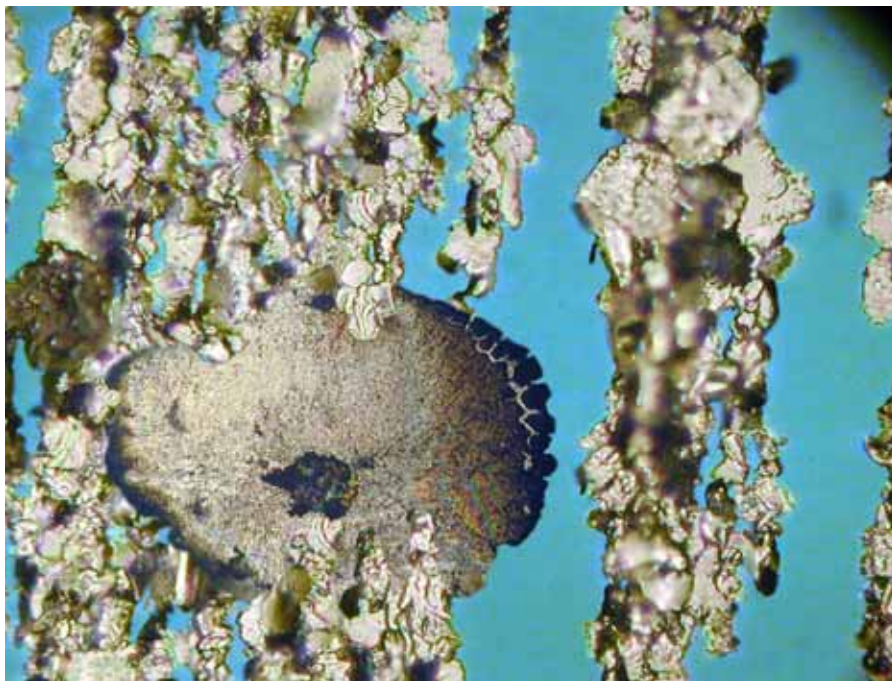
Component Reference:

REPORT DATE	SAMPLE NUMBER	ANALYST	SAMPLE DATE
10/13/2008	9994	mks	3-Oct-08
UNIT ID	COMPONENT ID	OIL TYPE	
P9A	O/B PUMP BEARING	NAM ISO 68	

INTERPRETATION

This analysis indicates an ABNORMAL wear condition. The ferrogram revealed a moderate to high level of fresh ferrous rubbing wear debris in the one micron size range or less. Several laminar wear flakes in the 10 micron range were also noted. A small part of the ferrous wear debris is oxidized, aged or showing indications of heat. This pump has a history of this type wear but this analysis reveals a recent shift in the overall wear profile. A transition into a more aggressive wear condition is indicated. Monitor filter for bypass condition. Perform thermographic and vibration profiles. See the standard sample report for additional data.

Magnification:



Analytical Ferrography

RATING	DESCRIPTION
2	Normal rubbing wear
0	Fatigue chunks
3	Laminar wear
0	Spherical particles
1	Cutting wear
0	Scuffing wear
0	Sliding wear
0	Ferrous oxides
0	Non-ferrous: Copper
0	Non-ferrous: Aluminum
0	Non-ferrous: Babbitt
1	Crystalline
0	Miscellaneous

0-None 1-Norm 2-Monitor 3-Abn 4-Crit

Direct Reading Ferrography

517	DL - Large
122	DS - Small
639	Total concentration
62%	Percent large particles

Accuracy of recommendations is dependent on representative sample and complete, correct data on both unit and sample. This report is not an endorsement or recommendation of any product or system.