

Accurate sampling with 'on the spot' testing and analysis can give you heat transfer fluid test results and system advice that you can rely on:- optimising your preventative maintenance or as a rapid response to system failure.

Continued use of heat transfer fluids results in a breakdown of the liquid structure. This can simply be the result of general wear and tear though this will accelerate at extreme high or low operational temperatures.

Poor system design or changes in processing can also lead to rapid fluid degradation as well as system malfunction. In order to evaluate the fluid and system safety our engineers can discuss the tests results 'on the spot' with any system implications and corrective actions that may be necessary.

The mobile laboratory is ideally suited to the following applications:

Periodical testing / analysis:

For immediate analysis for high risk applications.

Close monitoring to maintain safe parameters:

To ensure that characteristics are kept well within safe limits.

Close monitoring to maintain production & identify problems before they occur:

Identify problem areas such as hot spots, heat exchanger failure, flow problems.

Immediate response to system failure:

Identify the cause to rectify the problem quickly and get back into production at minimum cost.



'The Diagnostic Service' for heat transfer system users.

One of our experienced systems engineers will correctly sample the fluid, carry out the laboratory tests on site and analyse the results.

He will then be available to discuss the results, implications for the system safety and corrective action if necessary.

Our 8 point plan to improved system reliability & safety

- 1 Instant diagnostics from the mobile laboratory
- 2 Sampling to ASTM D5372/93 Reapproved 1998
- 3 Relevant fluid testing:
 - Viscosity @ 40oC ASTM D455
 - Closed Flash Point, Pensky Martens ASTM B D93-00oC
 - Open Flash Point, Cleveland ASTM D92-98a oC
 - Fire Point, Cleveland ASTM D92-98a oC
 - Carbon Level, Ramsbottom ASTM D524 %wt
 - Total Acid Number, D664-95 (Reapproved 2001)
 - Water Content, Karl Fischer ASTM D1744 ppm
- 4 Auto-ignition DIN51 794 oC (HSE laboratory)
- 5 Regeneration simulation tests
- 6 System Survey (Risk Assessments to meet 'DSEAR' requirements)
- 7 Safety Surveys
- 8 Personnel Training



HTS
APPLIED FLUID
TECHNOLOGY

Heat Transfer Systems Limited
Ridge Hall, Chapel-en-le-Frith, High Peak
Derbyshire SK23 9UD
telephone **01298 815862**
fax **01298 815863**
e-mail office@heattransfersystems.co.uk
website www.heattransfersystems.co.uk