

Does the build up of VOC's within your bulk heat transfer fluids result in lowered flash points, fire point and auto-ignition temperature?

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

System malfunction or poor design can result in additional stress on the fluids.

The build up of 'high boilers' can generally be easily eliminated through good system design or modification.



With the build up of low boilers, the flash and fire points will decline, often with a lowered auto-ignition temperature.

System modifications can slow this degradation though an increase in fluid flammability is inevitable.

In order to remove the VOC's, HTS have designed a range of mobile and fixed reconditioning units based on 'nitrogen stripping' and 'distillation' principles.

A range of configurations are ideally suited to the following situations:

On line VOC removal:

To remove VOC's on line to maintain high flash points, fire point and auto-ignition point.

On line water removal:

Following accidental water ingress or heat exchanger failure.

At commissioning:

To dry and condition fluid following installation or system modification:

Permanent Installation:

For regular removal of VOC's to maintain the best possible fluid condition.

In Emergency:

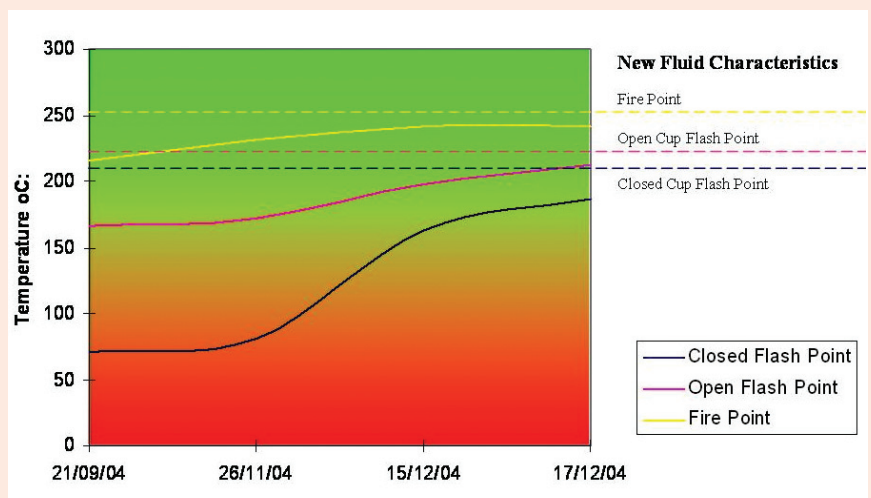
To remove water / VOC's to enable either high temperature or sub-zero operation.

Example 1: MDF Manufacturer

System Content: 20,000 litres

Fluid: Mobiltherm 605

Quantity VOC's removed: 1,400 litres



What can be done?

We have considerable experience of removing VOC's and water from heat transfer systems.

With hundreds of successful operations already undertaken we are likely to be able to meet the requirements of your system.

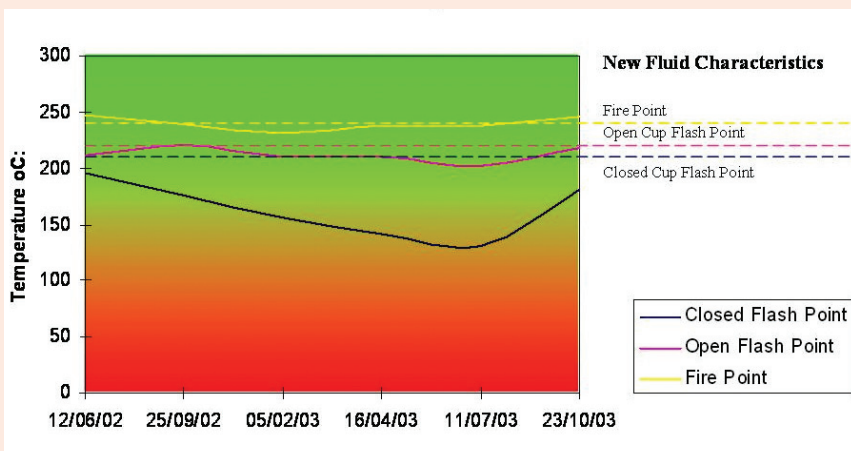
Our units – available for hire or purchase – are connected to the main system as a side stream, taking a proportion of the flow through our 'flash chamber' where the vapour release is stripped through a condenser for safe disposal.

This is undertaken during normal operation with no system downtime.

Example 2: Fine Chemicals

System Content: 6,500 litres Fluid: Thelson HT10

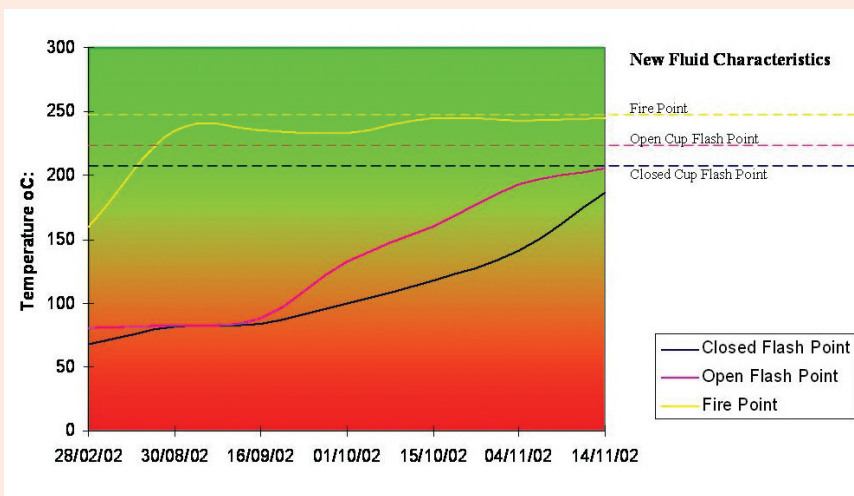
Quantity VOC's removed: 410 litres



Example 3: Petrochemicals

System Content: 22,000 litres Fluid: Essotherm 500

Quantity VOC's removed: 2,200 litres



Waste VOC's for safe collection and disposal

To find out more about the range of services HTS can offer, please contact us and we'll be happy to discuss your project in detail without any obligation.



Mobile reconditioning unit connected to thermal oxidiser system at Scapa Tapes, Dunstable

HTS
APPLIED FLUID TECHNOLOGY

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