



European Filter Solutions

Filter solutions for Industry



Fluid Management Services

Now available from leading UK filter supplier
EUROPEAN FILTER SOLUTIONS LTD

Metalworking fluids need to be correctly managed and controlled if you wish to gain best performance and reduce fluids costs.

Our team of experts will undertake testing of the fluids for you and submit a detailed report on their findings. They will then advise on corrective actions which will assist you in keeping you HSE compliant.

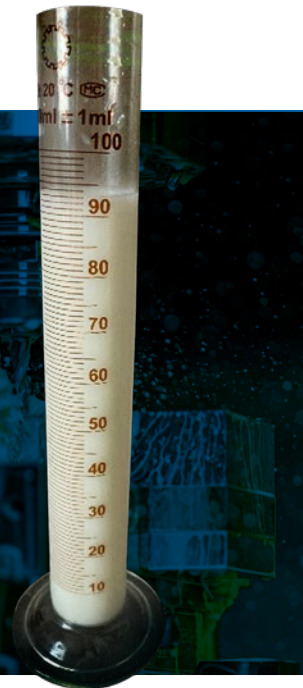
We can even carry out the corrective actions for you if required, ensuring confidence that they have been undertaken correctly.

Test Required	Frequency Required
Concentration Check	Weekly
Ph Check	Weekly
Dirt & Fines Assessment	Weekly
Appearance & Odour	Daily
Tramp Oil Levels	Weekly
Microbes	Minimum weekly
Water Hardness	Monthly
Corrosion Testing	Monthly

Appearance & Odour

A visual assessment of the machine sump and sample will give a good indication of fluid condition:

- Appearance
- Surface
- Sediment
- Odour



Operating Temperature

• Water-mix MWF

Operating MWF at temperatures above 30°C creates optimal conditions for microbial growth and increases MWF concentration through evaporation.



The operating temperature can affect the viscosity, cooling and misting properties. Consult the MWF supplier about the appropriate temperature range for their product.

Determine Product Concentration

- A refractometer is the ideal tool for shop floor checks on single sump machines
- The reading should be sharp. If blurred, then there may be tramp oil or stability problem

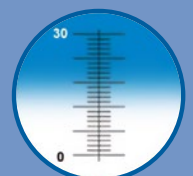
Note: **% BRIX does not = % concentration**



New Coolant



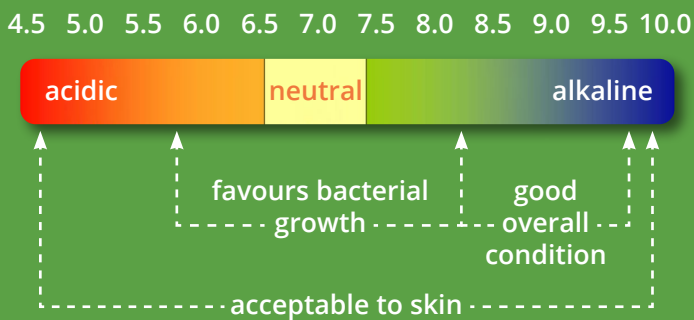
Old Coolant



pH Measurement

pH gives a good indication of fluid condition

- Bacteria and fungi produce acids which reduce emulsion pH
- A sharp drop in pH usually means an increase in bacteria levels



Tramp Oil & Fines Levels

Current HSE Guidance states a maximum **2%** volume for tramp oil.

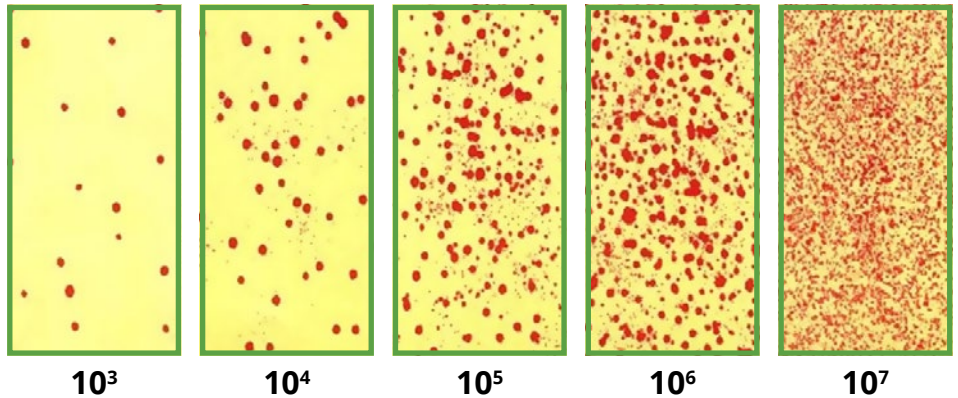
Swarf/fines to be at **minimal** levels dependant on the application.

However there are **no stipulated methods** for measuring either tramp oil or fines levels, but simple methods can be utilised for shop-floor assessments.



Monitoring Microbial Contamination

Dip slides are cost effective and simple easy to use. They tell us the level of contamination so we can determine corrective action. HSE requires testing to be weekly minimum. (* can be extended)



Record Results & Actions

- Keep good records
- Simple charts can track result trends
- Records should give history of recommendations and actions taken

Corrosion Testing

To ensure machine and parts do not corrode





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