

# FIRST AID FOR OILS™

Your complete guide to managing oil contamination and degradation

Diagnosis & Prevention

Treatment

Cure

Health





## WHY DOES THE HEALTH OF YOUR OIL MATTER?

Hydraulic and lubrication systems rely on having a clean and healthy source of oil in order to perform reliably and at their best. However, oil can quickly degrade in reactions with water, oxygen and heat, leading to a change of composition and viscosity, and the build-up of contaminants.

Unhealthy oil caused by degradation, whether in service or in storage, can result in costly equipment failure, as well as corrosion, sticking valves, friction and wear.

**“80% of all hydraulic & lubrication failures are caused by water or particulate contamination”<sup>1</sup>**

Primary Filters supplied with equipment do not work at a low enough micron level to prevent oil degradation impacting upon the performance of hydraulics and lubricants. Filtertechnik’s range of products and services focus upon every aspect of your oil’s health in order to ensure it is always in peak condition. This includes slowing the rate of degradation by removing water, and the removal of degradation products before they form contaminants such as sludge and varnish deposits.

**Filtertechnik is your first choice in optimising equipment performance, improving reliability and making your stored oil and equipment last longer.**

<sup>1</sup> Source: National Fluid Power Centre

## WE’RE THE FIRST CHOICE FOR COMPLETE OIL SOLUTIONS



### FIRST FOR HEALTH

We have been constantly innovating for over 25 years, making us the proven and qualified experts in oil health. If you need advice, consultancy, site-servicing, training or emergency product rental trust Filtertechnik.



### FIRST FOR DIAGNOSIS AND PREVENTION

Testing the quality and condition of your oil is vital. Our advanced diagnosis and prevention solutions include test kits, particle counters and sophisticated laboratory services to help you identify oil issues before it’s too late.



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### FIRST FOR TREATMENT

We understand oil health. Filtertechnik’s family of filtration products enable you to effectively treat your oil in order to ensure the longevity and performance of your hydraulic and lubrication systems.



### FIRST FOR INDIVIDUAL CURES

As expert designers and builders of customised filtration systems, we ensure exactly the right response whatever your specific oil health issue or challenge.





## FIRST FOR DIAGNOSIS AND PREVENTION

From patch and field-test kits to water monitoring systems to our in-house laboratory analysis, Filtertechnik provide all the products and services you need to check your oil is in tip-top health, and to spot problems before they affect your equipment.

### PRODUCT FOCUS Particle Pal®

The award winning and revolutionary portable laboratory for advanced off-site and on-site testing of your fuel and oil.

The real-time Particle Pal® enables you to complete in 5 minutes a testing process that previously took 2 days. It provides live ISO particle counts as well as % RH or water ppm counts – we believe it's the most cost-effective cleanliness monitor on the market.

*“Particle Pal® is unique... its portability, ease of use and adaptability across oils and fuels make it a valuable addition to the field engineer's tool kit.”*

Seawork.com

- Compact, lightweight and robust
- Accurate, repeatable and consistent results
- Measure the quality of oils and fuels in real time
- Ideal survey tool for field and laboratory use
- Sample direct from fuel tank, sample bottle, fuel polishing cabinet or oil reservoir



### ALSO AVAILABLE PC900 I

Laser particle counter for real time ISO cleanliness measurements. Can be used as a standalone or fitted into Filtertechnik filtration units.

### Portable Water Monitoring Systems Patch Test Kits Laboratory Analysis



Prevention is the best cure. For help identifying oil issues before they cause problems call 01994 240 904.



## FIRST FOR TREATMENT

Filtertechnik deliver complete oil treatment solutions to give you confidence that no matter what your application you can be sure that your oil will be fit for purpose and ready to perform at its best.

- Oil filtration systems
- Water removal filters
- Filter housings

We have over 25 years of experience in the industry, so why not trust the industry experts to keep your oil free from water and contaminants?

### PRODUCT FOCUS



### Water removal filters

The industry-leading water removal solution has evolved. Filtertechnik have managed to make the best even better, meaning Filtasorb 2 is the most powerful and cost effective tool on the market for removing water from your oil and diesel fuels.

- Versatile water removal cell design
- Holds up to 3 x more water than its closest competitor
- Water reduction levels to under 100ppm in a single pass
- High flow rates
- Designed for use with modern oils and diesel fuel blends
- Fully compatible with Filtertechnik's DFU range

Dry: Filtasorb 2 (right) compared to the leading competition.



Wet: Filtasorb 2 media absorbs up to 3x more water than the competition. The water remains captive in the new media design and is not released during operation.

300% GREATER WATER ABSORPTION

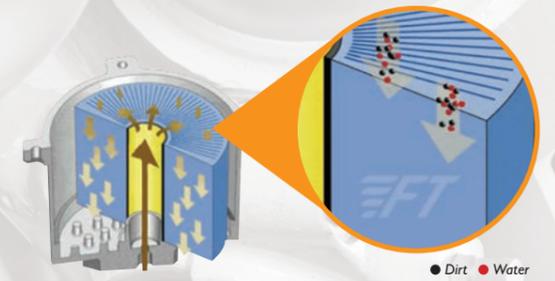


### PRODUCT FOCUS

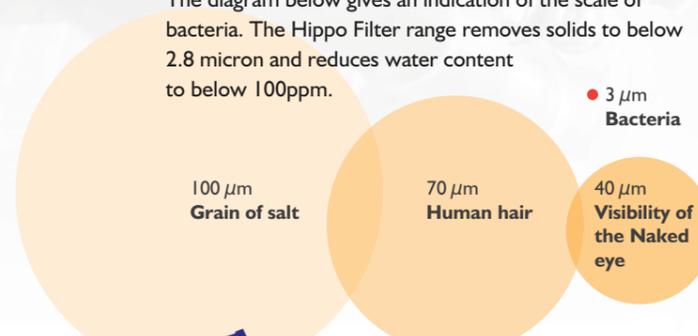
### The Hippo Filter

The powerful yet versatile Hippo Filter range simultaneously removes both water and solid contaminants down to 2.8 micron within a wide variety of applications, helping improve the performance of your equipment and extend the life of your stored oil by up to 10 x the duration. It gives performance and versatility without compromise.

- Eliminates water and particulates, but not additive packages
- Extends oil drain and service intervals
- Simple to install and operate
- Environmentally friendly
- Range of cartridges mean you can choose the filtration level you need
- Removes dirt and solid contaminants down to NAS 5 and ISO 14/9 or below
- Exceptional value, low cost elements



The diagram below gives an indication of the scale of bacteria. The Hippo Filter range removes solids to below 2.8 micron and reduces water content to below 100ppm.



### PRODUCT FOCUS

### Sentry & SFC-3000

The Sentry & SFC-3000 are light to heavy-duty filtration systems designed to perform superbly within constant industrial or intermittent oil transfer applications. It offers a high capacity alongside flexible filter element selection and easy element changeovers.

- Off-line contamination control of particulate and water
- Replenishing systems with filtered oil
- Emptying waste oil quickly
- End of production line flushing
- Transfer and filtration of oils



### A full range of oil filtration systems

With oil filtration systems ranging from 5 to 1000 litres/minute we've got the right solution, whatever the situation.





## FIRST FOR INDIVIDUAL CURES

We understand that no two projects are the same. This is why as well as a comprehensive range of versatile off-the-shelf solutions we also create bespoke solutions that exactly match your project requirements.

Filtertechnik are experts in advice, commissioning, design and manufacturing, ensuring that every aspect of your project is done properly by fully-qualified professionals.

- Initial project surveying and advice
- Specialist consultancy service
- In-house design and innovation resource
- Quality British manufacturing
- Benefit from 25 years of experience within the fluids and hydraulics sectors



### PRODUCT FOCUS

#### Hippo – Moon Buggy

The Moon Buggy is a portable filtration unit built upon the out-of-this-world hippo filter and adapted for handling rapid oil flow rates of up to 20l/min and 10 bar.

It enables users to reduce the water concentration to less than 100ppm and remove up to 99% of all solid contaminants within just a single pass, meaning oil is in optimum condition for all your critical applications.

### PRODUCT FOCUS

#### WMS500 Water Measurement Sensor

For exceptionally accurate and real-time reading of water measurement ppm counts Filtertechnik developed the WMS500 Water Measurement Sensor.

The WMS500 is calibrated against a Karl Fischer titration (ASTM D1533) and reliably measures absolute water content in hydraulic, silicon and bio oils.

### STATUS REPORT

#### End of Production Line Sentries

Several construction and Mining equipment manufacturers, including cranes, trucks and diggers rely upon hydraulics for operation. These components are often supplied from 3rd parties and are likely to include unwanted contaminants.

In order to guarantee roll-out oil cleanliness many have incorporated a customised Filtertechnik oil filtration system. This system delivers the filtration sensitivity they need at a speed that doesn't impact upon production speeds.



## FIRST FOR HEALTH

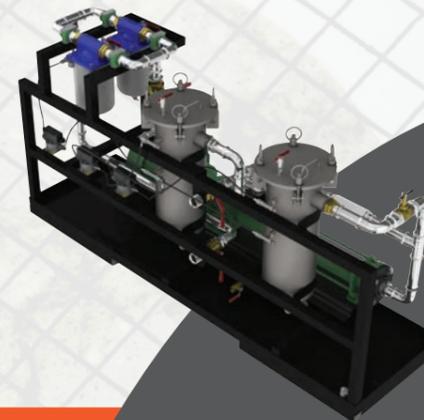
Just like human health, there is no one thing that will guarantee the condition and functionality of your oil. At Filtertechnik we've made it our business to become experts on all aspects of oil health, so that you can trust us when it comes to seeking advice, products and a complete and integrated oil health strategy.



- Consultancy, advice and best-practice
- In-house laboratory testing
- Superb customer service and aftersales support
- Equipment rental and emergency response

“Whatever your oil is used for it makes sense to look after it. Why throw away degraded oil or compromise the reliability and performance of your equipment when Filtertechnik can provide all the guidance and products you need at a competitive price?”

Richard Price, Managing Director



We're your expert partner in creating project-specific solutions. Call us on 01994 240 904 to discuss your requirements.

Visit our website [www.hydraulicprojects.net](http://www.hydraulicprojects.net) for more information

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