

# Particle Pal Life- ALL THE METRICS YOU NEED AT YOUR FINGER TIPS IN AN EASY TO USE SOFTWARE.



**Oil Life Indication.**  
Over 500 oils profiled with the ability to self calibrate. Gives early warning of oil coming to the end of it's life and also helps inform if an oil change is actually required.



**Particulate Analysis.**  
4, 6, 14 & 21 micron counts displayed as ISO, NAS & SAE classes. Software also displays the actual particle counts per ml.



**Water Content.**  
Displayed as % saturation (Relative Humidity).



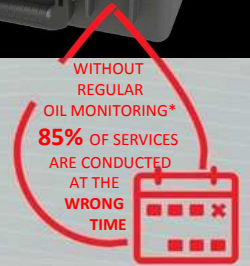
## Particle Pal Life TECHNICAL INFORMATION:

Fluid Compatibility:	Synthetic Oils, Organic Oils, Mineral Oils, Diesel Fuel (420 cSt viscosity limit)
Display Information:	Particulate: ISO 4406, SAE AS4059 & NAS 1638. Water: Relative Humidity (RH%). Oil Condition: Tan Delta oil life sensor to determine the remaining life of any oil profiled.
Modes of Operation:	High Pressure live system sampling (up to 350 bar) Bottle sampling and Tank sampling.
Data:	All data stored locally and backed up off-site. Export to .CSV or PDF
Calibration:	500 oils profiled with the ability to self calibrate any oil also included, via a one time routine.

# A WORLD FIRST



The **NEW Particle Pal Life**. Revolutionising the way oil is monitored on-site or in the laboratory. Provides accurate real-time Oil Condition: Particulate, Water Content & Remaining Life of Oil so you can stay ahead of potential issues and change oil only when required.



Also available is the **FS9V2**. Particle Pal Life is part of a family of products. The FS9V2 Particle Pal provides instant cleanliness readings to allow you to fully understand the condition of your oils and diesel fuels. **A self contained system, complete with integral pump and controlled flow rate.**



**Official Distributor for Filtertechnik:**

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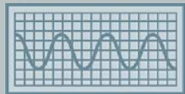
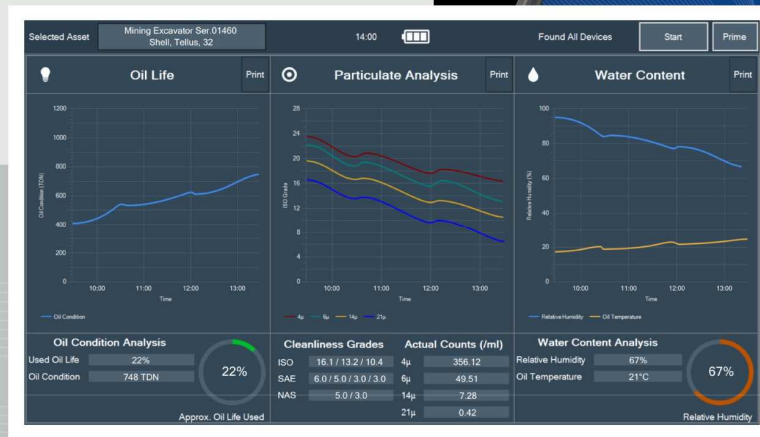
**Diagnosis & Prevention**

# SMART JUST GOT A WHOLE LOT SMARTER

## NEW Particle Pal Life

Filtertechnik have developed a World First with the **Particle Pal Life**. Building on the success of the award winning Particle Pal, this self-contained portable measuring system gives real time ISO Cleanliness Readings, Water Content and Oil Condition information for over 500 commonly used oils.

Particle Pal Life gives incredible insight into the health of your oil, in real time, helping engineers make informed choices with regards to oil replacement or treatment planning.



## NEW Software

A 10" touch screen LCD allows users to view data in great detail. A zoom facility allows you to focus on specific results. Within the software we have embedded oil ageing profiles for over 500 oils. Also included is the ability to self calibrate an oil life profile should your oil not be on the database. This is a one time routine where oil is taken through a calibration cycle.



## Oil life sensor

The Tan Delta Full Spectrum Holistic Oil Condition sensor monitors the overall condition of the oil giving you data with unparalleled sensitivity, accuracy and precision. This enables the oil's remaining useful life to be calculated. The sensor works with virtually any oil, drawing on a database of over 500 common industrial oils with the ability to self calibrate.



## Laser particulate counter

Our Laser Particulate Counters are accurate to within +/-0.5 of an ISO code with a repeatability of +/-0.1%. Reporting in ISO, SAE and NAS classes as well as giving the particle quantity counts in 4, 6, 14 and 21 micron sizes.



## Water sensor

Water in oil is a contaminant that causes additive depletion, microbial growth and encourages contamination from solids. The in-built water sensor shows the humidity of any oil as a % saturation.

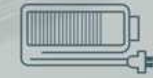


## FIRST FOR DIAGNOSIS



## Case design

Lightweight and heavy duty, the outer casing is ideal for working in the field. Supplied with an accessory case containing all the equipment you need to conduct tests and self calibrate oils not on the database.



## Battery life

Complete with a rechargeable battery, giving 3-6 hours of continual use (depending on oil viscosity).

\*A survey of over 20,000 oil samples showed that the vast majority of oil changes without oil analysis would be conducted at the wrong time - by following OEM recommendations rather than by analysis of the oil's ability to continue working and in most cases before the oil's life was fully depleted.

Source: learnoilanalysis.com

## PARTICLE PAL LIFE IS SUITABLE FOR USE IN A WIDE RANGE OF APPLICATIONS.

In both Hydraulic and Lubrication systems, knowing the particulate cleanliness and water content data can prevent serious system failure and component damage. Traditionally, samples are taken and sent off to laboratories for analysis, often an expensive and time consuming practice. The **Particle Pal Life** enables engineers to assess their oil's condition quickly including an indication of the remaining life of their oil.



POWER GENERATION



OFF ROAD MINING & CONSTRUCTION



WIND POWER



HYDRAULIC



MARINE



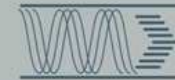
## Off-site data backup

A built in SIM card provides an option for data to be automatically transferred off-site and backed up where it can be viewed at any time. Once data is logged it can be recalled at any time to build trend history.



## Optional yearly licence

The new Particle Pal Life units include software updates and off-site backup license for the first year. Every 12 months thereafter there is an optional charge for annual sensor verification /calibration, off-site backup and software updates, including all new oils profiled.



## High pressure internal gear pump

Draw from oil stored in tanks or from sample bottles. Alternatively, the unit can analyse oils from pressurised systems via a high pressure adaptor, allowing connection to live systems up to 350 Bar.

For further information please contact +39 0392912515 or [info@mel-systems.it](mailto:info@mel-systems.it)