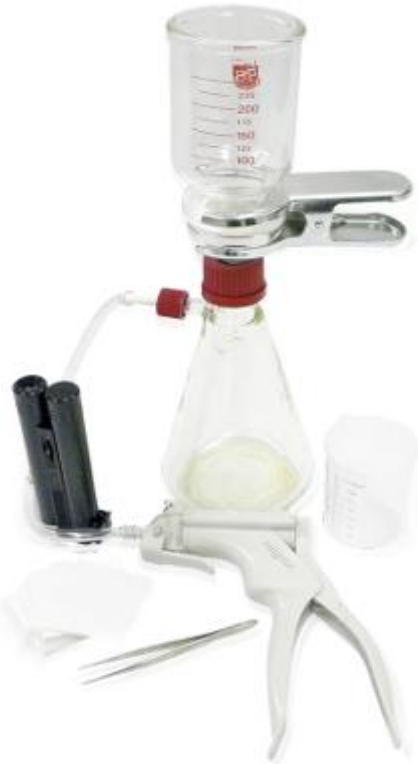
INSOLUBLES CHECK

Visual Particle Determination

The quality of lubricating and hydraulic oil can be significantly reduced by occurrence of insoluble or metal particles in it, and as a result the traces of friction process in different machine components can be detected. The INSOLUBLES CHECK is intended to determine whether the insoluble particles are present in lube and hydraulic oils or not. Moreover, the principal purpose is to identify the quality and size of these particles as well as to establish the cause of oil contamination.



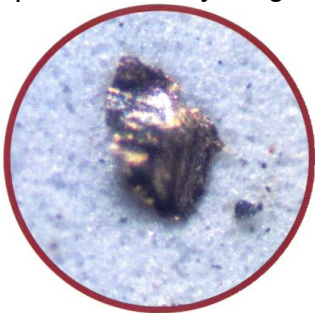
Features:

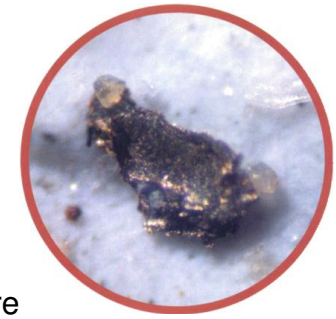
- Measuring range: particle > 3 µm
- Measuring time: about 15 min.
- Application: lube and hydraulic oil

Benefits:

- Direct visual assessment of particles
- Effective determination of the source of oil contamination
- Early detection of the friction-based processes
- Helpful for efficient machine components maintenance
- Easy to use even for untrained personnel

By means of a vacuum filtration system the oil flows through a molecular filter into a filter flask, and insoluble particles remain in the form of a deposit on the outer surface of the membrane filter. Therefore, they can be directly visually assessed with the help of a micro magnifying lens, and their form, size, nature and relative quantity can be examined. This allows to determine the friction-based processes, e.g. at pistons, pumps, at an early stage and to make effective maintenance decisions.





Particles of various nature
(metal, rust etc.) can be found in the oil sample.

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