FILTRATION MEDIA AND FILTERS TESTING
CHARACTERIZATION OF PERFORMANCES

DESCRIPTION :

Principles and mechanisms of filtration (1hr)

- Filtration theory (Darcy's law)
- Operating parameters having an impact of the filtration performances

Characteristics of the fluids under filtration (2 hr)

- Characteristics of the liquid itself (superficial tension, viscosity, density)
- Size characteristics of the solid particles (particle size distribution in number, mass or volume)

Characteristics of filter media (4hrs)

- intrinsic: structure, particle size, mesh, pore ...
- functional: hydraulic (permeability, pressure drop, ...), filtering (efficiency, threshold, cut off ...), compatibility (resistance to mechanical, chemical stresses ...)
- integrity check

Panorama of the existing standards used in the fields of the process fluids, the fluid power, the fuels and the lubricating oils

The training will take place at IFTS, therefore a visit of the testing laboratories, pilot hall and other premises will last 0,5 to 1 h to illustrate and feed the training course with observations and comments about the testing methods and equipment.

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