

# Specialty Fluid Analysis

## Testing and Evaluation

The Fluid Life Corporation seeks to provide the most complete and specialized testing services to our customers as possible. As with all the fluids tested in our labs, specialty fluids are tested under stringent quality control standards.



Every set of sample results is reviewed by a highly trained senior lab technician before the results are released to ensure strict quality assurance on every test. Contact your Regional Account Manager for a complete list of services.

## Specialty Fluid Analysis

Specialty fluid analysis is based on the special requests of our customers and availability of testing can be determined by contacting your Regional Account Manager. Below is a listing of some of the specialty fluids that can be tested by our labs.

### Heat Transfer Fluids

The main purpose of heat transfer fluids (HTF) is to provide indirect heating or cooling. Due to the typically high temperatures in many applications, oxidative and thermal degradation are of most common concern. Typical testing includes monitoring the Viscosity, Flash Point (decrease possibly due to thermal cracking; increase due to oxidation and extreme thermal cracking), Acid Number and Sediment.

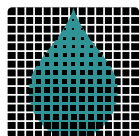
### Fire Retardant Fluids

Most fire resistant fluids (FRF) are of either synthetic oil (usually Phosphate Ester) or a water/glycol mixture. The synthetic Phosphate Esters have generally poor hydrolytic stability, and therefore, monitoring of actual water content by Karl Fischer titration is important. By nature of their purpose, high temperatures are also common, and monitoring of Acid or Base Number and Sediment (or ISO Particle Count) are also typically recommended. Water/Glycol fluids are monitored similar to standard coolant testing. (Water by Karl Fischer, Reserve Alkalinity, pH, Conductivity, etc.) Other tests may be recommended depending on the application and product type.

### Greases

Fluid Life is able to perform select analyses on your greases. Ferrography, penetration tests and spectrometry are three of the most common analyses chosen to determine whether a grease is performing optimally.

*...because what happens on the inside really counts*



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