

# BRAKE FLUID CONTAMINATION ANALYSIS COMPLETE & ACCURATE

## **BRAKE FLUID TESTING: THE ONLY WAY TO REALLY KNOW!**

When problems with brake systems occur and contamination is suspected, rapid, efficient analysis of the brake fluid can save thousands of dollars in maintenance and legal fees and countless, sleepless night of aggravation!

## **SAE Recommended Practice J1707 NOV91 – SERVICE MAINTENANCE OF SAE J1703 BRAKE FLUIDS IN MOTOR VEHICLE BRAKE SYSTEMS - States in Part;**

“Commercial brake fluids are susceptible to various types of contamination which can be detrimental to the performance and safety of brake actuating systems. ...

## **CONTAMINATION WITH PETROLEUM PRODUCTS:**

“Petroleum products are rapidly and selectively absorbed by brake system rubber parts, resulting in a high degree of softening, dimensional swelling, and general deterioration of the functional properties of these rubber parts. This type of brake fluid contamination will result in unsafe braking action and may be the direct cause of complete brake failure.”

## **CONTAMINATION WITH MISCELLANEOUS AUTOMOTIVE PRODUCTS:**

“Many types of liquid automotive specialty products, solvents, and cleaners are used in service stations, garages, and other establishments where brake service or maintenance is performed. Contamination of motor vehicle brake fluid with any such products will result in a deterioration of many essential performance requirements of the brake fluids, causing improper brake action or actual brake failure.”

## **Water Contamination:**

“J 1703 motor vehicle brake fluids are hygroscopic and absorb moisture when exposed to the atmosphere and in service. Water contamination from any source including mechanical or accidental additions of free water, will appreciably lower the original boiling point of the brake fluid and increase its viscosity at low ambient temperatures. Water contamination may cause corrosion of brake cylinder bores and pistons and may seriously affect the braking efficiency and safety of the brake actuating system.

## **CONTAMINATION FROM DIRT OR DUST:**

“Dirt, moisture, and petroleum contaminants can enter the brake system from failure to clear the master cylinder cap before removing it to check the fluid level, or from careless handling of brake fluid or brake system parts in performing other maintenance or service operations. Dust, as well as moisture, can enter the brake system through damaged or improper cylinder boots or gasket seals. Dirt and dust are abrasive and will score or scratch wheel cylinder seals and bores, resulting in fluid leakage or other operational problems which affect the braking efficiency and the safety of the motor vehicle brake system.”

## **WHY USE HERGUTH LABS?**

Herguth Laboratories, Inc. has over 20 years of experience in the analysis of all type of automotive fluids and components. Brake fluid analysis has been performed on thousands of systems. We have the experience you'll need when it comes time to settle a claim.

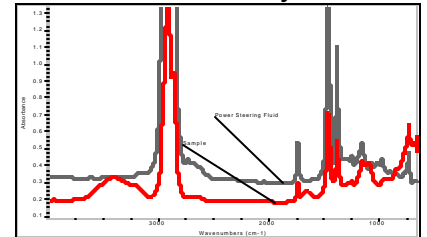
## **THE ANALYSES:**

Herguth uses a stepwise approach in the analysis of brake fluids. The two primary reason we do is because the sample volume is always limited and if the initial results from contamination are negative, we can stop the analysis before you

spend money needlessly! Why go on to detailed analysis of the source of a contaminant, that's not even there?

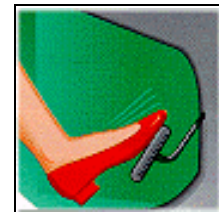
But, if the fluid is contaminated there a good changes we'll be able to tell you the source.

### **FTIR Scan Analysis**



## **Brake Fluid Test Package**

**% Water**  
**% Hydrocarbon Oil**  
**Boiling Point - Calculated**  
**Particle Contamination**  
**Corrosive Properties**  
**Detailed Report**  
**Recommendation Action**



## **RAPID TURNAROUND TIME!**

We perform our analysis with a sense of urgency! The typical turnaround for the complete analysis is 4 working days. Unless you're in a hurry. The complete analysis can be done in less than one day.

## **REASONABLE COST**

Because a test is only performed if the prior test was positive thus indicating the need for further evaluation, you save money!



**Herguth Laboratories, Inc.**

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