

# SPINNER II®

## Oil Cleaning Centrifuge

Spinner II Products / T.F. Hudgins, Incorporated

P.O. Box 920946 • Houston, Texas 77292-0946 • 713/682-3651

# TECHNICAL BULLETIN

Bulletin 92.025

Updated August 20, 2003

### SUBJECT: Toxicity Analysis of Centrifuged Contaminants

Spinner II Products Division, T. F. Hudgins, Incorporated has completed a toxicity analysis of solids collected in a centrifuge which was installed on an on-road four-cycle diesel engine. A representative sample was obtained from a customer operating thousands of diesels with the Spinner II Oil Cleaning Centrifuge functioning as the only bypass lube oil cleaning device. The results of this analysis are summarized in this bulletin.

The tests performed and reported here are:

- "TCLP Extraction TCLP"
- "TCLP\_M Metals EPA 1311"
- "TCLP\_S Semivolatiles EPA 1311"
- "TCLP\_V Volatiles EPA 1311"
- "TCLP\_Z Extraction TCLP ZHS"

The following sample was evaluated by these tests, commonly referred to as "TCLP" (Toxicity Characteristic Leaching Procedure), pronounced "t-clip":

#### "Spinner II Diesel Cake"

This EPA assessment simulates the leaching effects of weather and the environment on waste, and the potential for the waste to be broken down and leached into the ground water system. While the waste itself can contain components considered toxic, unless they are "leachable" from the waste to a pre-determined degree, the waste itself is *not* considered toxic.

Following are the current limits established by the EPA for the components tested *and* detected in the sample:

| <u>Metal</u> | <u>Limit</u> | <u>Amount Detected</u> |
|--------------|--------------|------------------------|
| Barium       | 100.0 mg/l   | 1.65 mg/l              |
| Chromium     | 5.0 mg/l     | 0.02 mg/l              |
| Silver       | 5.0 mg/l     | 0.02 mg/l              |

Lab test results are attached for the centrifuge sample. As this test report shows, the contaminants trapped by the Spinner II Oil Cleaning Centrifuge **did not exceed** the limits prescribed above. Other contaminants listed in the TCLP method, if present at all, were at concentrations below detection limits, BDL.

### Analysis Report On Sample "01 Spinner II Diesel Cake"

