

# Alpha Resources, Inc. Certificate Of Analysis

AR3161

## WASTE OIL STANDARD

LOT # 161498

LID ID 3161

|                           |   |             |             |
|---------------------------|---|-------------|-------------|
| <b>Chlorine</b>           | = | <b>439</b>  | <b>ug/g</b> |
| <b>Standard deviation</b> | = | <b>15</b>   |             |
| <b>Chromium</b>           | = | <b>5.4</b>  | <b>ug/g</b> |
| <b>Standard deviation</b> | = | <b>0.3</b>  |             |
| <b>Cadmium</b>            | = | <b>3.1</b>  | <b>ug/g</b> |
| <b>Standard deviation</b> | = | <b>0.2</b>  |             |
| <b>Lead</b>               | = | <b>49.2</b> | <b>ug/g</b> |
| <b>Standard deviation</b> | = | <b>3.8</b>  |             |

The certified mean value was statistically derived from the values reported to Alpha Resources through Round Robin.

### Methods Employed:

|               |             |
|---------------|-------------|
| Chlorine..... | UOP779      |
| Chromium....  | ASTM D 5185 |
| Cadmium.....  | ASTM D 5185 |
| Lead.....     | ASTM D 5185 |

### Notes:


Before use, the contents of the bottle should be mixed through vigorous shaking. The contents should not be exposed to air for a lengthy period of time.

Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors. Use the reproducibility factor when establishing the first set of data, and then establish an internal repeatability factor as your guideline.

The statistical analysis and overall coordination leading to certification was performed by D.L. Andersson at Alpha Resources.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Alpha Resources be liable for incidental or consequential damages.

**EXPIRATION DATE**  
**THIS CRM IS VALID FOR TWO YEARS FROM THE DATE OF PURCHASE WHICH**  
**APPEARS ON THE BOTTLE**

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[www.alpharesources.com](http://www.alpharesources.com)