

# Alpha Resources, Inc. Certificate Of Analysis

AR-2814

## RESIDUAL OIL STANDARD

LOT # 141007

LID # 141007

WEIGHT PERCENT SULFUR = 1.000  
STANDARD DEVIATION = 0.043

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

### Methods:

ASTM D 1552  
ASTM D 2622  
ASTM D 5453-93

This Certified Reference Material was traced to N.I.S.T. SRM 2717

### 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.

This is a Certified Reference Material (CRM), and is traceable to the above-mentioned standard. For good laboratory practice it is recommended that all standards be verified prior to use.

The overall direction and coordination of the analytical measurements leading to certification were performed by J.R. Shingledecker 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**

*J.R. Shingledecker*