

# Alpha Resources, Inc.

## Certificate Of Analysis

AR-2896

### RESIDUAL FUEL OIL STANDARD

LOT #896312

LID ID 896312

WEIGHT PERCENT SULFUR = 0.70  
STANDARD DEVIATION = 0.03

#### Methods used for analysis: ASTM D 4294-10

This standard was produced gravimetrically using high purity materials, with balances calibrated and checked by precision NIST traceable weights, and verified using the above ASTM method(s). The precision value represents the 95% confidence limit (k=2) derived from analysis and errors from weighing. When necessary, professional judgment is applied toward consideration of data and statistical information. The statistical analysis and the overall direction and coordination of the analytical measurements leading to certification were performed by K.E. Dyer at Alpha Resources. Normal ASTM procedures should be employed when using this standard. This includes using the *reproducibility* and *repeatability* factors for the ASTM method you wish to employ.

#### Notes:

Before use, the contents of the bottle should be mixed through vigorous shaking. This bottle should be kept sealed and stored upright under normal laboratory conditions.

This is a Certified Reference Material (working standard) verified with NIST 1619a, and was prepared in accordance to ISO Guide 34-2009. For good laboratory practice it is recommended that all standards be verified prior to use. 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 OPENING

April 5, 2012

