

Alpha Resources, Inc.

Certificate Of Analysis

AR2901

RESIDUAL OIL STANDARD

LOT # 9011196

LID ID 2901

PARTS PER MILLION VANADIUM	=	407
STANDARD DEVIATION	=	15
PARTS PER MILLION NICKEL	=	75
STANDARD DEVIATION	=	3
WEIGHT PERCENT SULFUR	=	4.25
STANDARD DEVIATION	=	0.21

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

Methods:
ASTM D 5708
ASTM D 4294

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 of the certification was performed by D.M. Reasons at Alpha Resources.

The statistical analysis and overall coordination was performed by D.M. Reasons 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 OPENING



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