Alpha Resources, Inc. Certificate Of Analysis

AR 1622 ULTIMATE RESIDUAL OIL STANDARD

LOT # 622598

			Standard Deviation
Mean Weight % Sulfur	=	1.846	0.014
BTU/Pound	=	18,073	121
Mean ug/g Iron	=	23.2	1.3
Mean ug/g Nickel	=	14.1	1.2
Mean ug/g Silicon	=	31.3	1.5
Mean ug/g Vanadium	=	48.4	5.6
Mean ug/g Sodium	=	12.1	1.2
Mean ug/g Copper	= /	0.25	0.01
Mean Weight % Carbon	= /	86.44	1.26
Mean Weight % Hydrogen	= [9.97	0.24
Mean Weight % Nitrogen	EE-J	0.23	0.01

LID ID 622598

Methods Employed:

ASTM D 4294	- X I	ASTM D 5185
ASTM D 5373	//'	ASTM D 5184
ASTM D 3286		ASTM D 5056

Notes:

This Certified Reference Material was traced to N.I.S.T. SRM 1622e

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

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 DM. 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 OF PURCHASE WHICH
APPEARS ON THE BOTTLE