Alpha Resources, Inc. Certificate Of Analysis

AR-747

GREEN PETROLEUM COKE STANDARD

LOT # 747699

LID ID 747699

ALL ANALYSIS REPORTED ON A DRIED BASIS VALUE

MEAN WEIGHT PERCENT SULFUR	4.03	MEAN WEIGHT PERCENT NITROGEN.	1.13
STANDARD DEVIATION	0.17	STANDARD DEVIATION	0.03
MEAN WEIGHT PERCENT ASHSTANDARD DEVIATION	0.56 0.05	PARTS PER MILLION NICKELSTANDARD DEVIATION	191 31
MEAN WEIGHT PERCENT VOL. MAT	11.97	PARTS PER MILLION IRONSTANDARD DEVIATION	246
STANDARD DEVIATION	0.50		37
BTU/POUNDSTANDARD DEVIATION	15,463 80	PARTS PER MILLION VANADIUMSTANDARD DEVIATION	155 22
MEAN WEIGHT PERCENT CARBON	90.87	PARTS PER MILLION CALCIUMSTANDARD DEVIATION	246
STANDARD DEVIATION	0.96		37
MEAN WEIGHT PERCENT HYDROGEN	3.83	PARTS PER MILLION SILICON	375

Methods:

ASTM D 4239 Method C ASTM D 3174-89 ASTM D 4421 ASTM D 5373 ASTM D 5056

Notes:

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

The statistical analysis and overall coordination leading to certification was 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

Page 1 Of 1

P.O. Box 199 3090 Johnson Road Stevensville, MI 49127 USA Phone www.alpharesources.com

J.R. Shingledecher

Alpha Resources, Inc. Certificate Of Analysis

