



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc., has assessed the Laboratory of:

**A.J. Edmond Company
1530 W. 16th Street
Long Beach, CA 90813**

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2005

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated January 2009):

***Sampling and Quantitative Analysis of Petroleum Coke and Coal
(As detailed in the supplement)***

Such testing and/or calibration services shall only be offered at or from the address given above. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

The validity of this certificate is mandated through ongoing surveillance.

Tracy Szereszen
President/Operations Manager
Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
26555 Evergreen, Suite 1325
Southfield, Michigan 48076

Initial Accreditation Date:
December 05, 2009

Issue Date:
December 05, 2009

Expiration Date:
December 04, 2011

Accreditation No.:
59388

Certificate No.:
L09-122

Page No.:
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Certificate of Accreditation: Supplement

A.J. Edmond Company
 1530 W. 16th Street
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Accreditation is granted to this facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical Testing	Petroleum Coke, Coal	Metals by ICP	ASTM D5600	Si – 0.32; V – 0.34; Fe – 0.09; Ni – 0.03; Ca – 0.004; Na – 1.38; Al – 0.56 (units are mg/kg)
		Sulfur by Infrared Detection	ASTM D4239	0.001 % - 20 %; DL 0.001 %
		Moisture	ASTM D4931	0.01 % - 95 %; DL 0.01 %
		Volatile Matter	ASTM D6374	0.01 % - 20 %; DL 0.01 %
		Ash	ASTM D4422	0.01 % - 100 %; DL 0.01 %
		Hardgrove Grindability	ASTM D5003	20 – 120 HGI
		Calorific Value	ASTM D5865	8 000 – 16 000 BTU
		Carbon, Hydrogen, Nitrogen	ASTM D5291	C: 0.002% - 100 %; DL 0.002 % H: 0.02 % - 10 %; DL 0.02 % N: 0.02 % - 4 %; DL 0.02 %
		Sieve	ASTM D5709	0 – 100 %; DL 0.0 %
		Vibrated Bulk Density	ASTM D4292	0.650 - 1.000 g/cc
		Real Density	ASTM D2638	1.700 - 2.900 g/cc
		Solvent Extractable	ASTM D4930 AJE Method 45	0.01 – 70 %; DL – 0.01 %
		Mercury	ASTM D6722	0.017 – 0.586 ppm
		Mercury Porosimetry	AJE Method 44	N/A
		Bulk Density	AJE Method 29	N/A
Sampling	Petroleum Coke, Coal	Green Coke Sampling	ASTM D346	N/A
		Calcined Coke Sampling	ASTM D6970	N/A