

SGS IMME Mongolia LLC

MRN: 5616077

Energy Resource LLC

TTD: 2887746
Central Tower, 15th Floor, Suite 7, Sukhbaatar Square 2
Sukhbaatar District,-8
Mongolia

Lab Ref: UC004839

Client Ref: **ER-24002**

Project: Coal

Sample type

Status: Final

Received: 2/22/24

Started: 2/23/24

Reported: 3/2/24

Samples: 1

First Sample: HCC_240221_1

Last Sample: HCC_240221_1

Pages: 11

Result apply to sample as submitted.

Notes

Authorised by



On behalf of:

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Operations Director

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UC004839

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Uildveriin toirog 101 toot
 20th Khoroo
 Bayangol Duureg
 Ulaanbaatar 36, Mongolia

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ANALYTICAL REPORT

Scheme	ASTM3302	ASTM3302	ISO11722:2013	ISO 1171:2010	ISO 1171:2010	ISO 1171:2010
Units	%	%	%	%	%	%
Detection Limit	0.1	0.1	0.1	0.5	0.5	0.5
Upper Limit	50	50	50	99	99	99
	Moisture, Total	Air Dry Loss	RM_ADB	Ash, ARB	Ash, ADB	Ash, DB
HCC_240221_1	7.77	7.07	0.76	9.88	10.63	10.71

- not analysed / -- element not determined / I.S. insufficient sample / L.N.R. listed not received

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ANALYTICAL REPORT

Scheme	ISO562:2010	ISO562:2010	ISO562:2010	ISO562:2010	ISO 1213-2:2016	ISO 1213-2:2016
Units	AR %	AD %	DB %	DAF %	%	%
Detection Limit	0.1	0.1	0.1	0.1	0.01	0.01
Upper Limit	75	75	75	75	100	100
	VM_ARB	VM_ADB	VM_DB	VM_DAF	FC_ARB	FC_ADB
HCC_240221_1	20.47	22.03	22.20	24.86	61.87	66.58

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ANALYTICAL REPORT

Scheme	ISO 1213-2:2016	ISO 1213-2:2016	ISO19579:2006	ISO19579:2006	ISO19579:2006	ISO19579:2006
Units	%	%	AR %	AD %	DB %	DAF %
Detection Limit	0.01	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	5.21	5.21	5.21	20
	FC_DB	FC_DAF	Sul_ARB	Sul_ADB	Sul_DB	Sul_DAF
HCC_240221_1	67.09	75.14	0.62	0.67	0.67	0.75

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ANALYTICAL REPORT

Scheme	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	ISO 501:2012	ISO 15585:2019
Units	KCAL/KG	KCAL/KG	KCAL/KG	KCAL/KG	/	/
Detection Limit	0	0	0	0	0	0
Upper Limit	10,000	10,000	10,000	10,000	9	110
	GCV_ARB	GCV_ADB	GCV_DB	GCV_DAF	CSN	G
HCC_240221_1	7083	7622	7680	8601	7.5	77

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ANALYTICAL REPORT

Scheme	ICP40B	GB/T 4633-2014	GB/T 3558-2014	XRF76V	CVA20A	GB/T 479:2016
Units	PPM	PPM	%	%	PPM	mm
Detection Limit	3	20	0.003	0.01	0.004	0
Upper Limit	10,000	2,000	0.4	70	5.2	30
	As	F	Cl	P	Hg	Y
HCC_240221_1	<3	165	0.200	0.11	<0.004	12.0

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ANALYTICAL REPORT

Scheme	GB/T 479:2016	ISO 1928:2020	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21
Units	mm	KCAL/KG	AD %	AR %	DB %	AD %
Detection Limit	0	0.1	0.001	0.001	0.001	0.001
Upper Limit	45	9,000	100	100	100	100
	X	NCV_AR	C_AD	C_AR	C_DB	H_AD
HCC_240221_1	22.5	6853	78.81	73.24	79.41	4.12

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ANALYTICAL REPORT

Scheme	ASTM D5373-21					
	AR %	DB %	AD %	AR %	DB %	AD %
Units	0.001	0.001	0.001	0.001	0.001	0.001
Detection Limit	100	100	100	100	100	50
Upper Limit	H_AR	H_DB	O_AD	O_AR	O_DB	N_AD
HCC_240221_1	3.82	4.14	3.36	3.12	3.40	1.66

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ANALYTICAL REPORT

Scheme	ASTM D5373-21	ASTM D5373-21
	Units	AR %
Detection Limit	0.001	0.001
Upper Limit	50	50
	N_AR	N_DB
HCC_240221_1	1.54	1.67

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Description

ASTM2013	:	Standard Practice for Preparing Coal Samples for Analysis
ISO11722	:	Determination of moisture in the general analysis test sample by drying nitrogen
ASTM3302	:	Moisture, Air-Dry Loss
ISO 1171	:	Solid mineral fuels-Determination of ash
GB/T 3558	:	Determination of Chlorine in coal
ISO501	:	Hard coal-Determination of the crucible swelling number
GB/T 4633	:	Determination of Fluorine in coal
ISO 1213-2	:	Fixed Carbon (by calculation)
ISO 15585	:	Hard coal-Determination of Caking index
CVA20A	:	Mercury by AFS method
ISO 1928	:	Coal and coke — Determination of gross calorific value
ISO19579	:	Solid mineral fuels-Determination of sulfur by IR spectrometry
ASTM3302	:	Standard Test Method for Total Moisture in Coal
ASTM D5373	:	Standard Test Methods for Determination of Carbon, Hydrogen and Nitrogen in Analysis Samples of Coal
ISO562	:	Hard coal and coke-Determination of volatile matter
GB/T 479	:	Determination of plastometric indices of bituminous coal
ICP40B	:	ICP-OES after DIG40B
ISO1928	:	Coal and coke — Determination of gross calorific value
XRF76V	:	Meta/Tetraborate Fusion, XRF (0.7000gr)



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