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# НҮҮРСНИЙ ОВООЛГЫН ҮЗҮҮЛЭЛТ

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№ ETT\_SP\_CC

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ISO 45001:2018

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ISO 9001:2015

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ISO 14001:2015



НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ДУНДАЖ ҮЗҮҮЛЭЛТ

<p><b>ДОТООД ЧИЙГ (ad)</b></p> <p><b>1.0%</b></p> <p>max</p>	<p><b>ҮНСЛЭГ (db)</b></p> <p><b>13.0%</b></p> <p>(-3.0; +3.0)</p>	<p><b>ДЭГДЭМХИЙ (daf)</b></p> <p><b>26.0%</b></p> <p>(-2.0; +2.0)</p>
<p><b>НИЙТ ХҮХЭР (ad)</b></p> <p><b>≤1.5%</b></p>	<p><b>БАРЬЦАЛДАХ ЧАНАР</b></p> <p><b>≥75.0</b></p>	<p><b>НҮҮРСНИЙ ХЭМЖЭЭ</b></p> <p><b>544.0</b></p> <p>МЯН.ТН</p>

НҮҮРСНИЙ ОВООЛГЫН ШИНЖИЛГЭЭНИЙ ҮР ДҮН

ALS GROUP LLC  
 Mongol National Building, 2nd floor  
 Chinggis Avenue, Khan-Uul District  
 Ulaanbaatar, Mongolia  
 Tel: +976 70 007467



CERTIFICATE OF ANALYSIS  
 23F115, G06, 25, 41, 182, H21-TT

CLIENT: **Erdenes Tavan Tolgoi JSC**  
 ADDRESS: Finance Center, Jigjidjav-8  
 1st khoroo, Chingeltei District  
 Ulaanbaatar, Mongolia  
 ATTN: Bilguunmantel S  
 PROJECT NO. xxx  
 LAB. JOB NO. 23F115, G06, 25, 41, 182, H21-TT  
 NO. SAMPLES: 16  
 Notes/Comments: xxx

SAMPLES RECEIVED: 03/08/2023-24/06/2023  
 INSTRUCTIONS RECEIVED: 03/08/2023-24/06/2023  
 DATE OF REPORT: 04/08/2023-25/06/2023  
 STATUS OF REPORT: FINAL  
 ANALYSIS COMPLETE: 04/08/2023-25/06/2023  
 PREPARATION CODE: CRUSH-01, 02, MILL-01  
 ANALYSIS CODE: 1. COKING COAL CSN  
 TM, ASH, MOIS, VOL,  
 TSUL, CSN, CKN

APPROVED BY: Laboratory Manager  
 Quality Manager  
 CHECKED BY: Chief Chemist

These test results are representative only of the sample received in the laboratory.

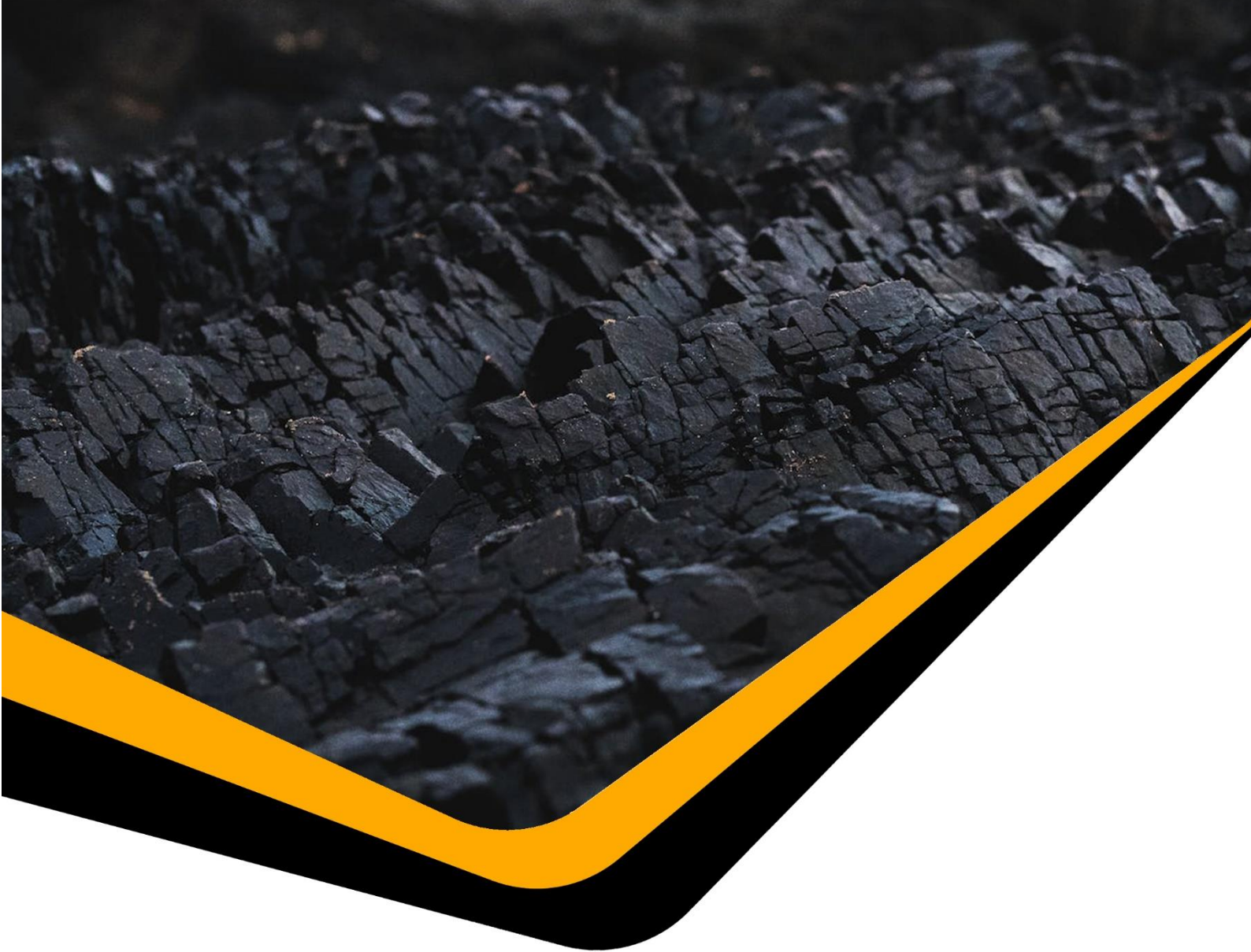
LAB NO.	SAMPLE NO.	AS RECEIVED BASIS										AIR DRIED BASIS										DRY BASIS										Coal Caking Index (CKIN)
		GB/T 211		GB/T 212		ISO 19579		GB/T 212		ISO 19579		GB/T 212		ISO 19579		GB/T 212		ISO 19579		GB/T 212		ISO 19579		GB/T 212		ISO 19579		GB/T 212		ISO 19579		
		Total Moisture (TM)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	%	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Creosote Swelling Number (CSN)	Sc1	Sc3			
1	ETT_SP_10049-T-1A	5.42	14.14	23.85	56.59	0.71	0.63	14.86	25.06	59.46	0.75	14.95	25.22	59.83	0.75	29.65	70.35	0.89	6.5	79	-											
2	ETT_SP_10049-T-1B	5.81	12.37	24.44	57.38	0.74	0.73	13.04	25.75	60.48	0.78	13.14	25.94	60.92	0.78	29.87	70.13	0.90	7.0	86	-											
3	ETT_SP_10049-T-1C	4.50	11.72	24.91	58.87	0.67	0.80	12.17	25.88	61.15	0.69	12.27	26.09	61.64	0.70	29.74	70.26	0.80	6.5	84	-											
4	ETT_SP_10057-2A	1.68	12.09	26.49	59.74	1.09	0.64	12.22	26.77	60.37	1.10	12.30	26.94	60.76	1.11	30.72	69.28	1.27	8.0	91	-											
5	ETT_SP_10057-2B	1.77	11.41	26.55	60.27	0.73	0.65	11.54	26.85	60.96	0.74	11.61	27.03	61.36	0.75	30.58	69.42	0.84	8.0	93	-											
6	ETT_SP_10057-2C	2.01	13.73	25.54	58.62	0.56	0.74	13.91	25.97	59.38	0.57	14.01	26.16	59.82	0.57	30.43	69.57	0.66	8.0	89	-											
7	ETT_SP_10057-3A	2.61	12.71	23.32	61.36	0.60	0.62	12.97	23.79	62.42	0.61	13.05	23.94	63.01	0.62	27.53	72.47	0.71	6.5	77	-											
8	ETT_SP_10057-3B	2.70	12.36	24.02	60.92	0.60	0.65	12.62	24.52	62.21	0.62	12.70	24.68	62.61	0.62	28.27	71.73	0.71	6.5	78	-											
9	ETT_SP_10057-3C	2.96	10.42	23.93	62.69	0.55	0.59	10.67	24.51	64.22	0.56	10.74	24.66	64.60	0.57	27.62	72.38	0.63	7.0	85	-											
10	ETT_SP_10057-4A	2.10	12.79	24.04	59.08	0.72	0.86	12.95	23.37	59.82	0.73	13.06	24.59	60.34	0.74	30.59	69.41	0.85	7.0	86	-											
11	ETT_SP_10057-4B	2.18	13.22	25.40	59.21	0.57	0.81	13.40	23.75	60.04	0.58	13.51	25.96	60.53	0.58	30.02	69.98	0.67	7.0	87	-											
12	ETT_SP_10057-4C	2.35	14.92	24.88	57.85	0.70	0.94	15.13	25.24	58.69	0.71	15.28	25.48	59.24	0.72	30.08	69.92	0.84	7.0	83	-											
13	ETT_SP_10057-5A	1.64	13.49	25.89	58.98	1.01	0.46	13.65	26.20	59.69	1.02	13.71	26.32	59.96	1.03	30.51	69.49	1.19	6.5	82	-											
14	ETT_SP_10057-5B	1.86	14.65	25.14	58.34	0.89	0.43	14.87	25.51	59.19	0.90	14.93	25.62	59.45	0.91	30.12	69.88	1.07	6.5	80	-											
15	ETT_SP_10057-6A	1.66	10.53	26.18	61.62	1.05	0.70	10.64	26.44	62.23	1.06	10.71	26.62	62.67	1.07	29.82	70.18	1.19	7.5	89	-											
16	ETT_SP_10057-6B	1.82	10.69	26.47	61.02	1.15	0.72	10.81	26.77	61.70	1.17	10.89	26.96	62.15	1.17	30.25	69.75	1.32	7.5	92	-											

QUALITY ASSURANCE/QUALITY CONTROL DATA

STD/ALSWS-23/20	ASH	VOL	TSUL
Certified Value	10.88	18.16	0.618
Standard Deviation	0.05	0.16	0.017
Unit	%	%	%
Analyzed value	10.87	18.20	0.620

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release. COPY RIGHT PROTECTED DOCUMENT





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Финанс төв, 1-р хороо,  
Чингэлтэй дүүрэг,  
Улаанбаатар хот

