

# **OIL ANALYSIS REPORT**

# Direct Strip Mill/Finishing HSM MINERAL BLK (S/N DSC 198)

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (--- GAL)

Sample Rating Trend



## DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

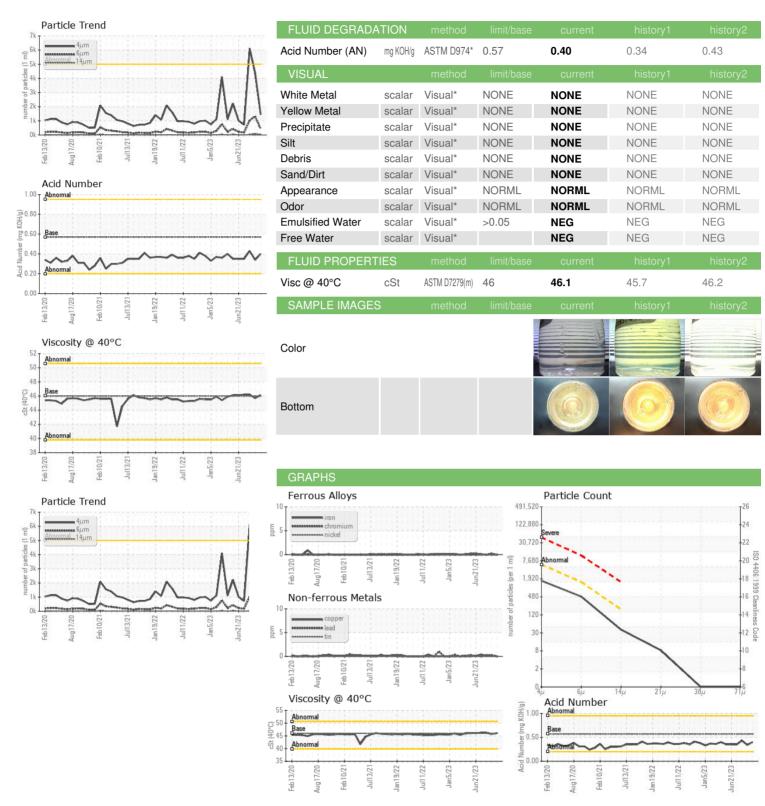
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837561	WC0837416	WC0837311
Sample Date		Client Info		08 Dec 2023	13 Nov 2023	27 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	<1	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>20	0	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	0	<1	<1
Barium	ppm	ASTM D5185(m)	5	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	25	66	60	69
Calcium	ppm	ASTM D5185(m)	200	12	16	12
Phosphorus	ppm	ASTM D5185(m)	300	286	279	291
Zinc	ppm	ASTM D5185(m)	370	332	340	355
Sulfur	ppm	ASTM D5185(m)	2500	686	735	696
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	<1	<1
Sodium	ppm	ASTM D5185(m)		0	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1443	4382	<b>▲</b> 6103
Particles >6µm		ASTM D7647	>1300	429	▲ 1307	1019
Particles >14μm		ASTM D7647	>160	34	90	21
Particles >21µm		ASTM D7647	>40	7	16	5
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71μm		ASTM D7647	>3	0	1	0
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Oil Cleanliness

ISO 4406 (c) >19/17/14



## OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGOMA STEEL INC. - STORES DEPT.

: WC0837561 : 02610286

: 5711372 Test Package : IND 2 (Additional Tests: TAN Man)

Recieved : 22 Jan 2024 Diagnosed Diagnostician

: 23 Jan 2024

: Kevin Marson

301 WALLACE TERRACE SAULT STE MARIE, ON CA P6C 1K8 Contact: Algoma Reliability

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F: (705)945-3585

Validity of results and interpretation are based on the sample and information as supplied.