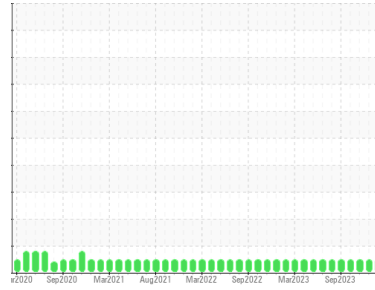




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**Direct Strip Mill/Finishing**

Machine Id

**HSM 320 BULK TANK (S/N DSC 201)**

Component

**Bulk Fluid Tank**

Fluid

**SHELL OMALA S2 G 320 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0837391</b>	WC0837434	WC0837555
Sample Date	Client Info	<b>16 Apr 2024</b>	28 Feb 2024	18 Jan 2024
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	<b>0</b>	0	0	
Iron	ppm	ASTM D5185(m)	<b>2</b>	1	1
Chromium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185(m)	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	5.5	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0.5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	23	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)	13	<b>&lt;1</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m)	450	<b>270</b>	286	291
Zinc	ppm	ASTM D5185(m)	9.9	<b>2</b>	1	1
Sulfur	ppm	ASTM D5185(m)	8181	<b>9317</b>	10342	10367
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

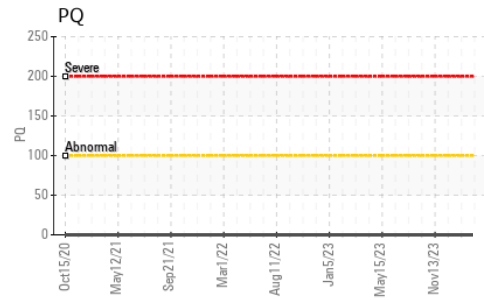
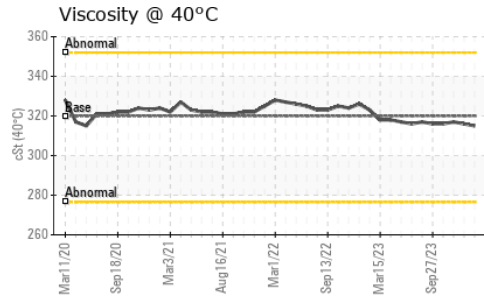
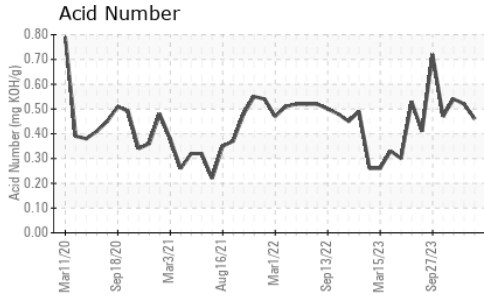
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)		<b>6</b>	7	7
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.46</b>	0.52	0.54



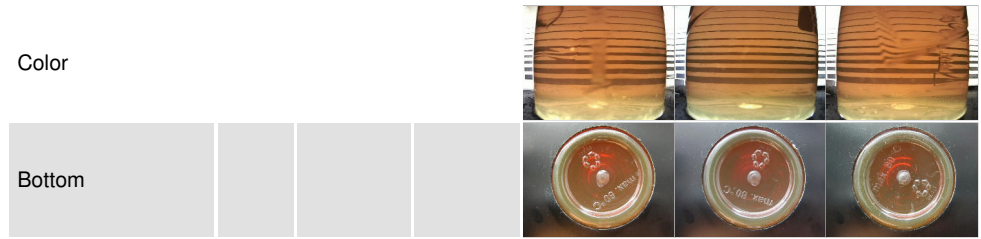
# OIL ANALYSIS REPORT



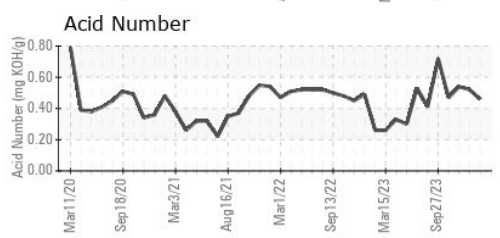
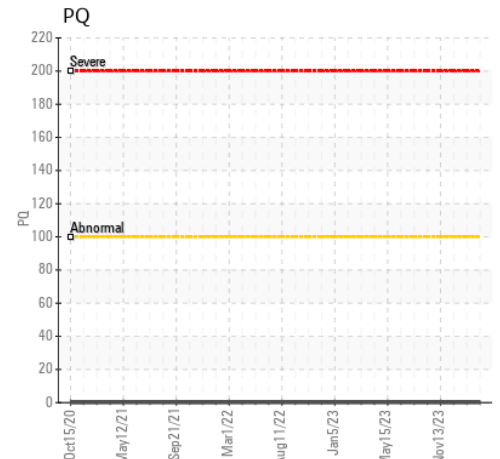
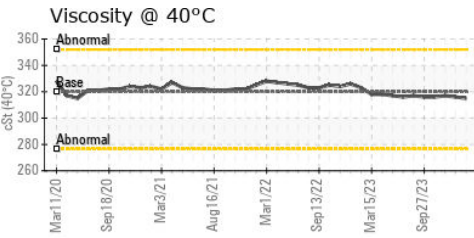
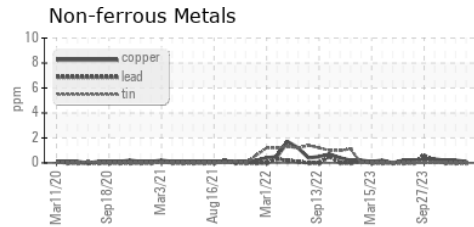
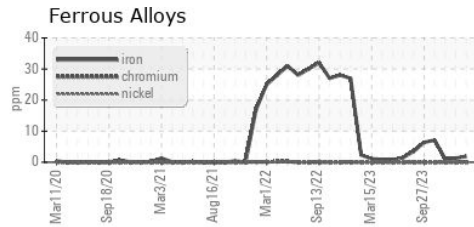
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	320	315	316

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**  
**Sample No.** : WC0837391 **Received** : 22 Apr 2024 **301 WALLACE TERRACE**  
**Lab Number** : 02630762 **Tested** : 23 Apr 2024 **SAULT STE MARIE, ON**  
**Unique Number** : 5763894 **Diagnosed** : 23 Apr 2024 - Wes Davis **CA P6C 1K8**  
**Test Package** : IND 2 **Contact: Algoma Reliability**  
**algomareliability@algoma.com**

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.