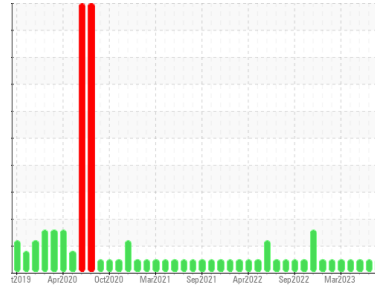




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Direct Strip Mill/Finishing**  
 Machine Id  
**HSM 680 BLK (S/N DSC 199)**  
 Component  
**Bulk Fluid Tank**  
 Fluid  
**GEAR OIL ISO 680 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### 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>WC0837396</b>	WC0780860	WC0813707
Sample Date	Client Info		<b>27 Sep 2023</b>	08 Aug 2023	21 Jun 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m)	<b>&lt;1</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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<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) 50	<b>1</b>	1	<1
Barium	ppm	ASTM D5185(m) 15	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 15	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 50	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185(m) 50	<b>2</b>	1	2
Phosphorus	ppm	ASTM D5185(m) 350	<b>270</b>	289	291
Zinc	ppm	ASTM D5185(m) 100	<b>2</b>	2	2
Sulfur	ppm	ASTM D5185(m) 12500	<b>9380</b>	9220	9525
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

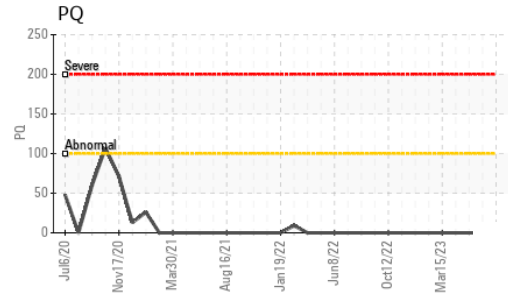
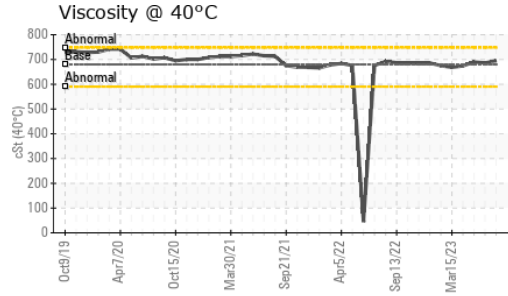
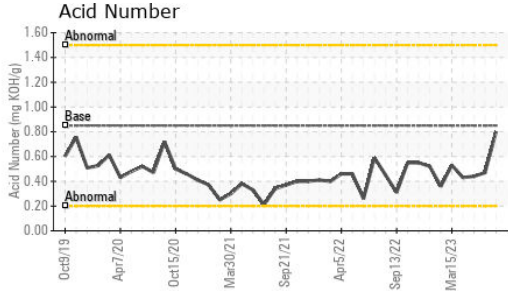
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>6</b>	7	7
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.85	<b>0.80</b>	0.47	0.44



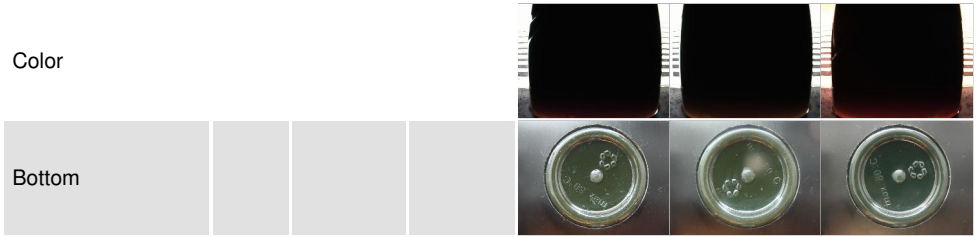
# OIL ANALYSIS REPORT



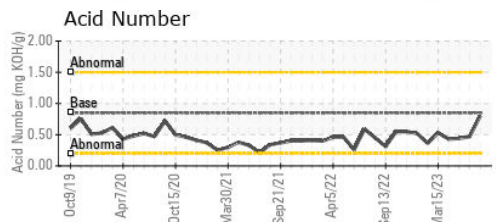
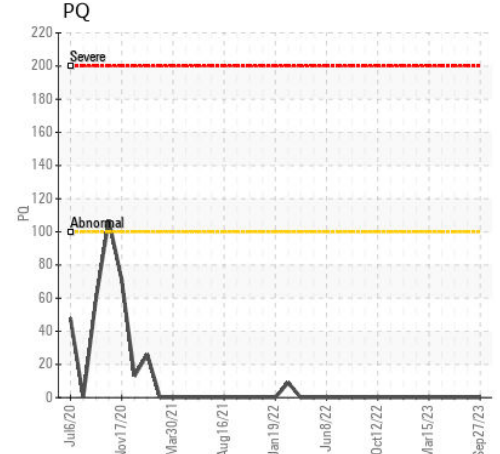
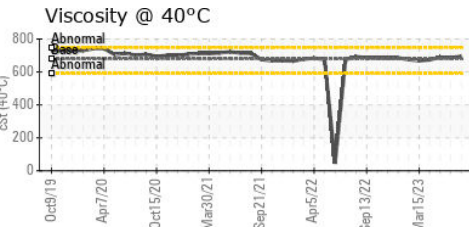
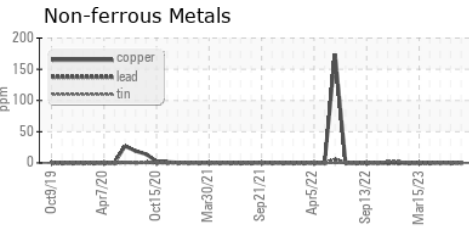
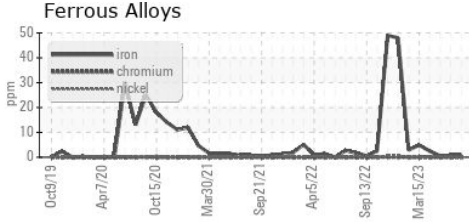
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	680	695	686

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.** : WC0837396 **Received** : 02 Oct 2023 301 WALLACE TERRACE  
**Lab Number** : 02586197 **Diagnosed** : 02 Oct 2023 SAULT STE MARIE, ON  
**Unique Number** : 5655263 **Diagnostician** : Wes Davis CA P6C 1K8  
**Test Package** : IND 2 ( Additional Tests: TAN Man ) Contact: Algoma Reliability

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.