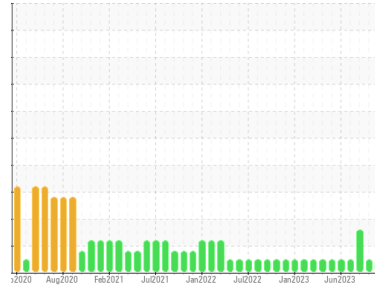




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**Direct Strip Mill/Finishing**  
 Machine Id  
**PL5 - F1/2 & SHEAR LUBE SYSTEM (DSC020) (S/N 1000017196)**  
 Component  
**Gear Lube System**  
 Fluid  
**GEAR OIL ISO 680 (25000 LTR)**

## 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

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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0837579</b>	WC0837425	WC0837464
Sample Date	Client Info			<b>18 Jan 2024</b>	14 Nov 2023	26 Sep 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	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>79</b>	65	39
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>10	<b>1</b>	1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>16</b>	16	13
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<b>2</b>	2	1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>4</b>	4	3
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

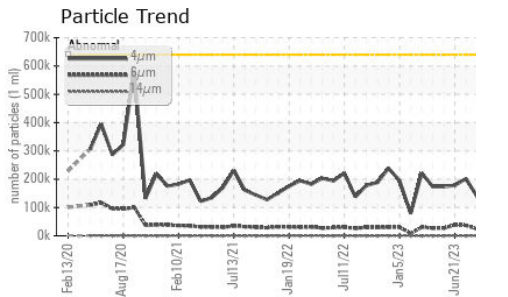
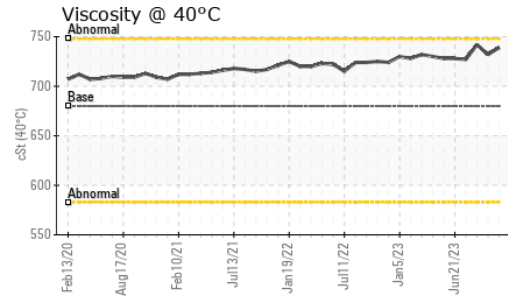
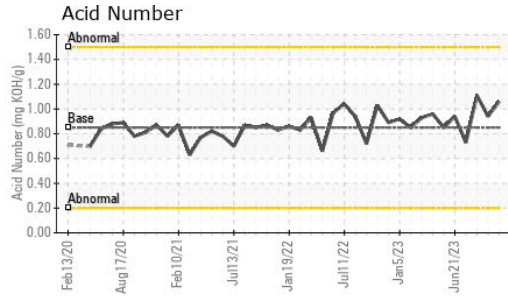
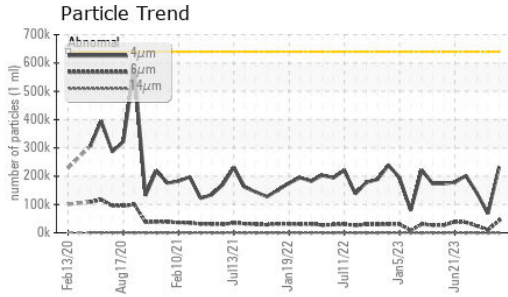
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	<b>4</b>	4	4
Barium	ppm	ASTM D5185(m)	15	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	15	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	50	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	50	<b>6</b>	7	7
Phosphorus	ppm	ASTM D5185(m)	350	<b>174</b>	179	168
Zinc	ppm	ASTM D5185(m)	100	<b>6</b>	6	6
Sulfur	ppm	ASTM D5185(m)	12500	<b>8982</b>	9027	9238
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>2</b>	2	2
Sodium	ppm	ASTM D5185(m)		<b>5</b>	5	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640000	<b>232128</b>	67753	140005
Particles >6µm		ASTM D7647	>160000	<b>43467</b>	10727	24045
Particles >14µm		ASTM D7647	>20000	<b>383</b>	142	237
Particles >21µm		ASTM D7647	>5000	<b>55</b>	34	51
Particles >38µm		ASTM D7647	>1300	<b>4</b>	2	3
Particles >71µm		ASTM D7647	>320	<b>2</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>26/24/21	<b>25/23/16</b>	23/21/14	24/22/15



# OIL ANALYSIS REPORT

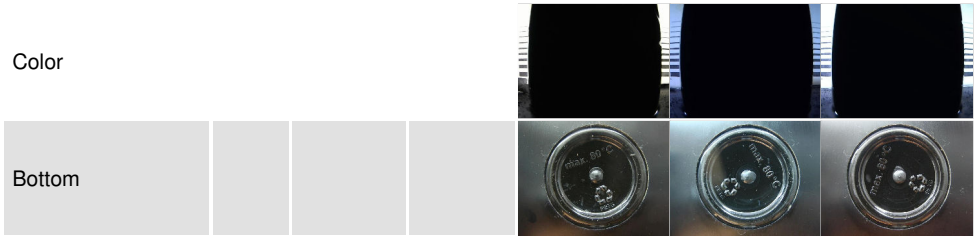


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.85	<b>1.06</b>	0.94	1.11

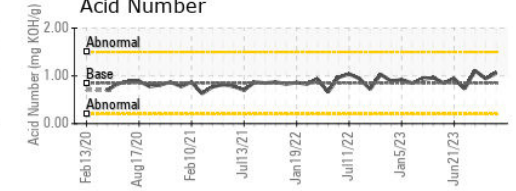
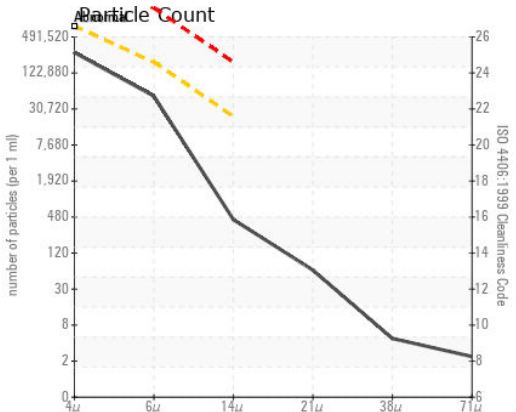
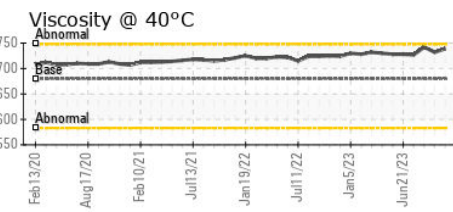
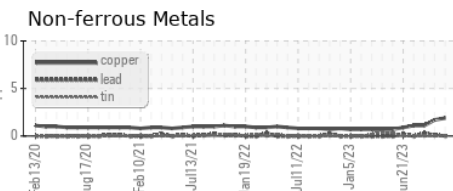
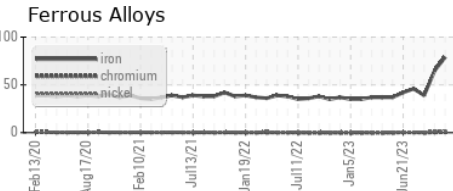
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	▲.2%
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	680	<b>739</b>	732	742

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**  
**Sample No.** : WC0837579 **Received** : 22 Jan 2024 301 WALLACE TERRACE  
**Lab Number** : 02610444 **Diagnosed** : 23 Jan 2024 SAULT STE MARIE, ON  
**Unique Number** : 5711530 **Diagnostician** : Wes Davis CA P6C 1K8  
**Test Package** : IND 2 ( Additional Tests: TAN Man )  
 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.

T: (705)206-1059  
 F: (705)945-3585