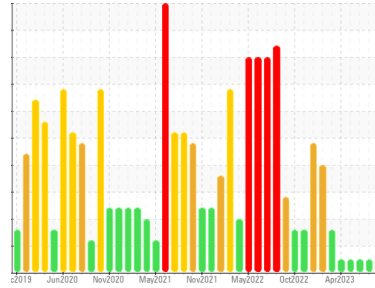




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**DIRECT STRIP MILL/FINISHING**  
 Machine Id  
**PL8 ROLL BITE LUBE SYSTEM (DSC023) (S/N 1000017405)**  
 Component  
**Gear Lube System**  
 Fluid  
**NOT GIVEN (2000 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>WC0837467</b>	WC0780881	WC0813694
Sample Date	Client Info		<b>26 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	
Iron	ppm	ASTM D5185(m)	>150	<b>21</b>	24	32
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<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)	>25	<b>0</b>	<1	0
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<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)		<b>&lt;1</b>	2	<1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	2
Phosphorus	ppm	ASTM D5185(m)		<b>2</b>	2	3
Zinc	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	3
Sulfur	ppm	ASTM D5185(m)		<b>11545</b>	10833	11293
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>&lt;1</b>	4	<1
Sodium	ppm	ASTM D5185(m)		<b>1</b>	0	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

## FLUID CLEANLINESS

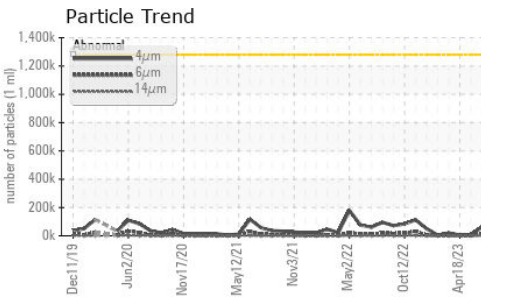
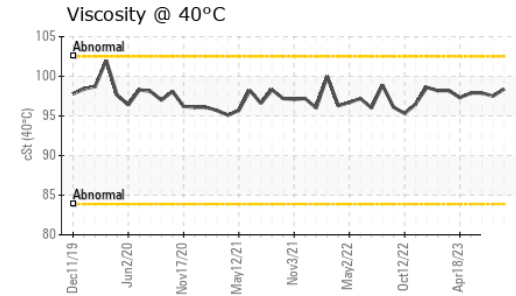
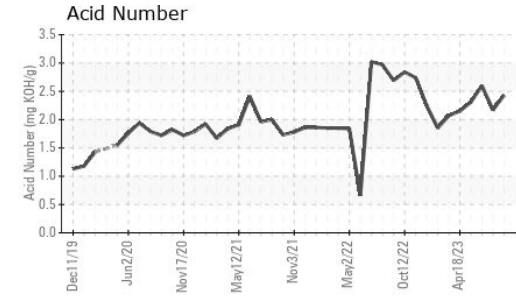
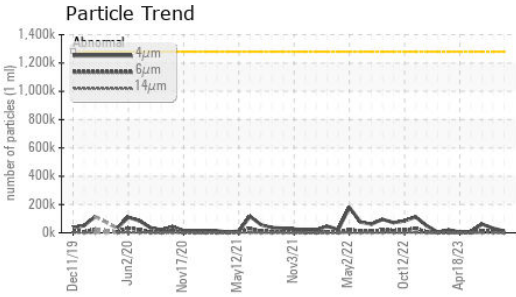
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1280000	<b>12544</b>	32184	61043
Particles >6µm	ASTM D7647	>640000	<b>3003</b>	8308	14717
Particles >14µm	ASTM D7647	>20000	<b>122</b>	497	659
Particles >21µm	ASTM D7647	>5000	<b>18</b>	139	139
Particles >38µm	ASTM D7647	>1300	<b>1</b>	15	4
Particles >71µm	ASTM D7647	>320	<b>0</b>	8	1
Oil Cleanliness	ISO 4406 (c)	>27/26/21	<b>21/19/14</b>	22/20/16	23/21/17

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>2.43</b>	2.17	2.60



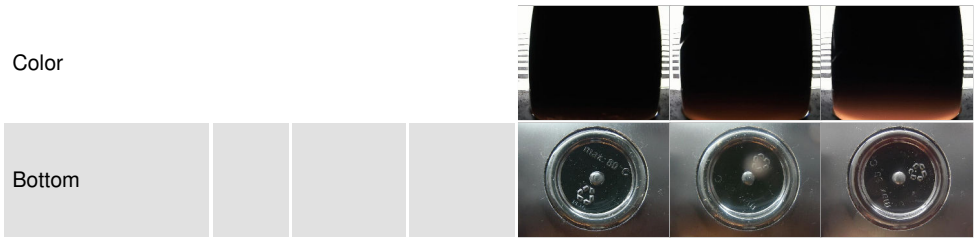
# OIL ANALYSIS REPORT



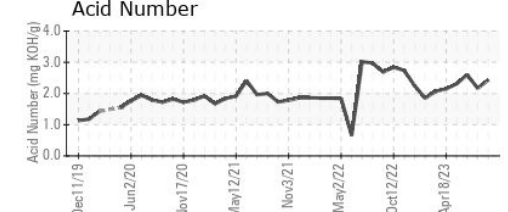
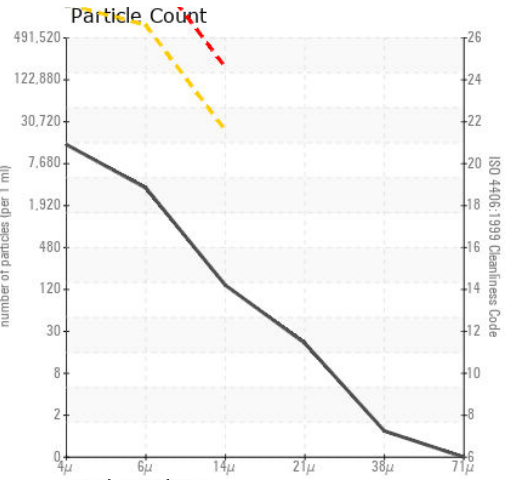
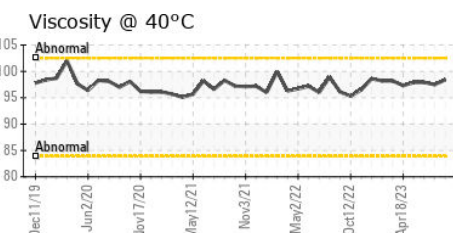
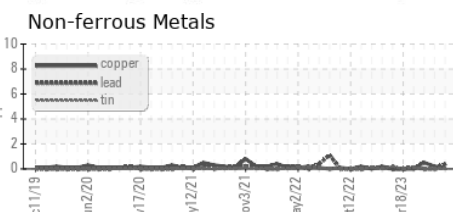
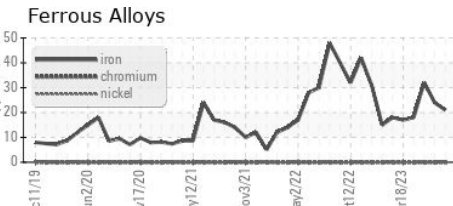
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>98.4</b>	97.5	97.9

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.** : WC0837467 **Received** : 02 Oct 2023 **301 WALLACE TERRACE**  
**Lab Number** : **02586174** **Diagnosed** : 04 Oct 2023 **SAULT STE MARIE, ON**  
**Unique Number** : 5655240 **Diagnostician** : Kevin Marson **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.*