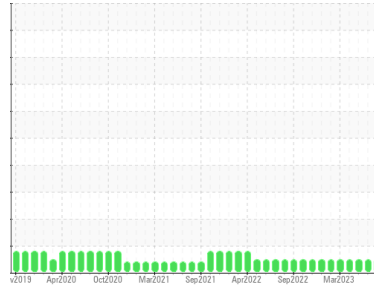




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Direct Strip Mill/Finishing**  
 Machine Id  
**PL6 - F3 TO F6 DRIVE LUBE SYSTEM (DSC021) (S/N 1000017305)**  
 Component  
**Gear Lube System**  
 Fluid  
**GEAR OIL ISO 460 (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>WC0780879</b>	WC0813692	WC0780852
Sample Date	Client Info		<b>08 Aug 2023</b>	21 Jun 2023	15 May 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>7</b>	6	6
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</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) >25	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	0	<1
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) 50	<b>2</b>	1	2
Barium	ppm	ASTM D5185(m) 15	<b>0</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>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m) 50	<b>3</b>	3	<1
Phosphorus	ppm	ASTM D5185(m) 350	<b>223</b>	226	242
Zinc	ppm	ASTM D5185(m) 100	<b>6</b>	6	4
Sulfur	ppm	ASTM D5185(m) 12500	<b>8611</b>	9021	9021
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>	<1	<1
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0

## FLUID CLEANLINESS

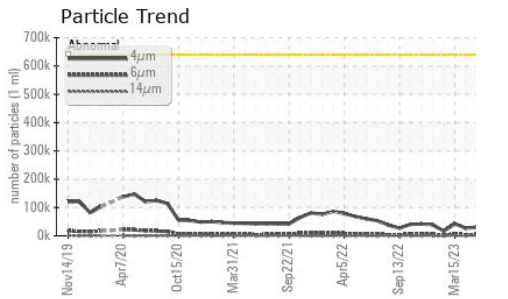
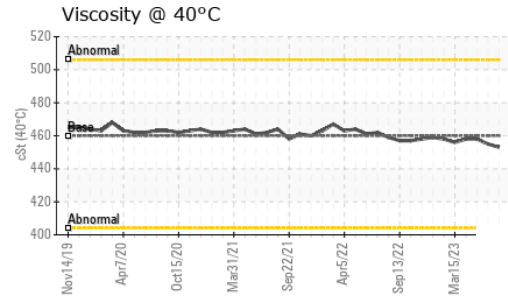
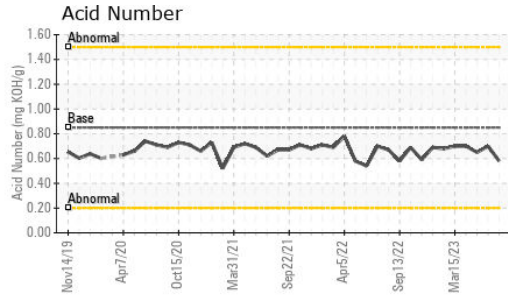
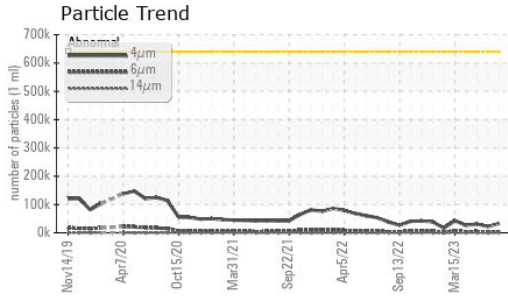
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640000	<b>33062</b>	22114	30897
Particles >6µm	ASTM D7647	>160000	<b>3656</b>	2891	4441
Particles >14µm	ASTM D7647	>40000	<b>44</b>	33	90
Particles >21µm	ASTM D7647	>10000	<b>7</b>	6	9
Particles >38µm	ASTM D7647	>2500	<b>1</b>	1	1
Particles >71µm	ASTM D7647	>640	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>26/24/22	<b>22/19/13</b>	22/19/12	22/19/14

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.85	<b>0.58</b>	0.70	0.65



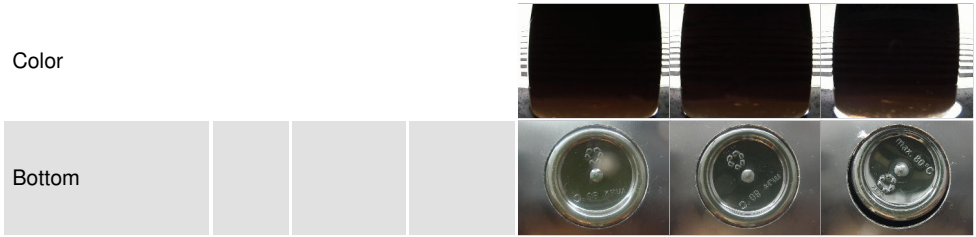
# OIL ANALYSIS REPORT



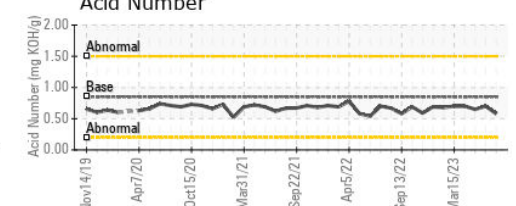
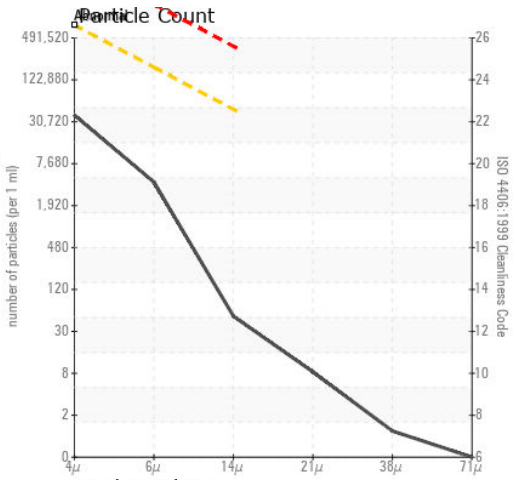
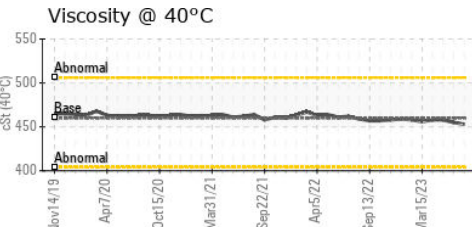
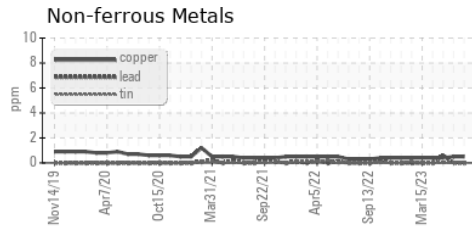
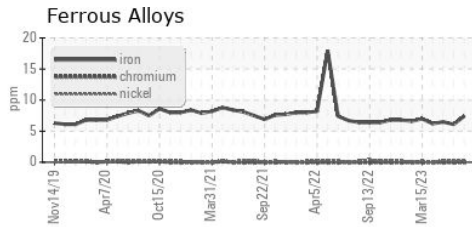
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	460	453	455

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.** : WC0780879 **Received** : 11 Aug 2023 **301 WALLACE TERRACE**  
**Lab Number** : 02575463 **Diagnosed** : 14 Aug 2023 **SAULT STE MARIE, ON**  
**Unique Number** : 5620514 **Diagnostician** : Wes Davis **CA P6C 1K8**  
**Test Package** : IND 2

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.

Contact: Algoma Reliability  
 algomareliability@algoma.com  
 T: (705)206-1059  
 F: (705)945-3585