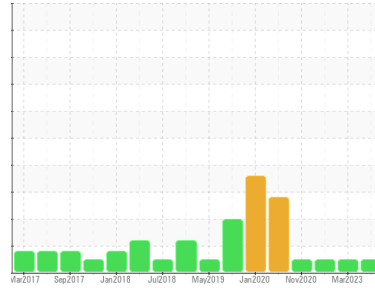




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

## Wide Cold Mill/Temper Mill

Machine Id  
**80" TEMPER MILL MOTOR LUBE (MILL OIL CELLAR) (WCM011) (S/N 100006026)**

Component

**Lube System**

Fluid

**R&O OIL ISO 68 (850 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

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>WC0752385</b>	WC0752205	WC0419567
Sample Date	Client Info	<b>22 Aug 2023</b>	07 Mar 2023	29 Jan 2021
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<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) >20	<b>1</b>	1	4
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	4
Copper	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185(m) >20	<b>10</b>	11	30
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
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	<b>0</b>	0	<1
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 5	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	0	<1
Phosphorus	ppm	ASTM D5185(m) 100	<b>17</b>	19	85
Zinc	ppm	ASTM D5185(m) 25	<b>3</b>	1	2
Sulfur	ppm	ASTM D5185(m) 1500	<b>201</b>	219	597
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >15	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	<1

### FLUID CLEANLINESS

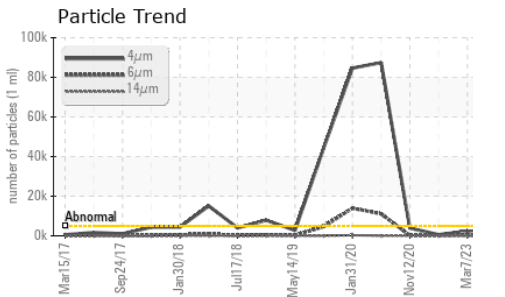
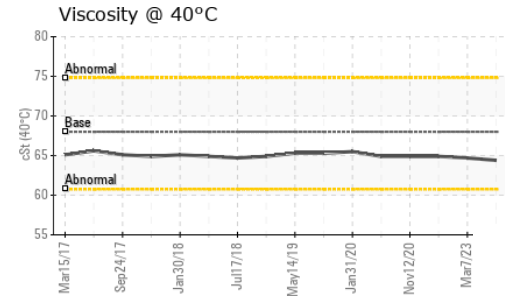
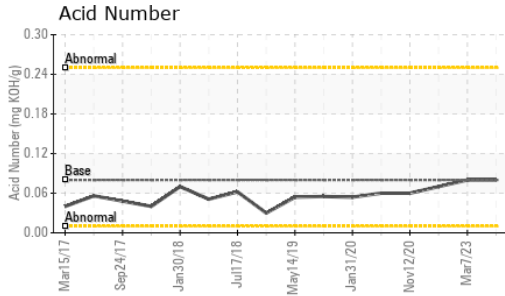
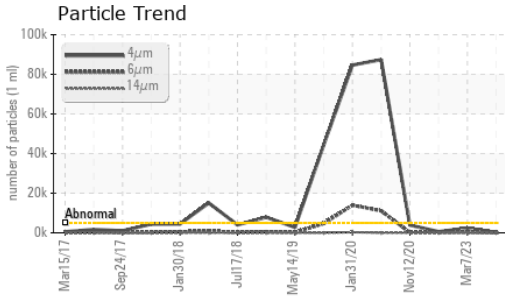
method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	<b>202</b>	2385	582
Particles >6µm	ASTM D7647	>1300	<b>52</b>	426	145
Particles >14µm	ASTM D7647	>320	<b>4</b>	23	11
Particles >21µm	ASTM D7647	>80	<b>1</b>	7	2
Particles >38µm	ASTM D7647	>20	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/15	<b>15/13/9</b>	18/16/12	16/14/11

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974* 0.08	<b>0.08</b>	0.08	0.07



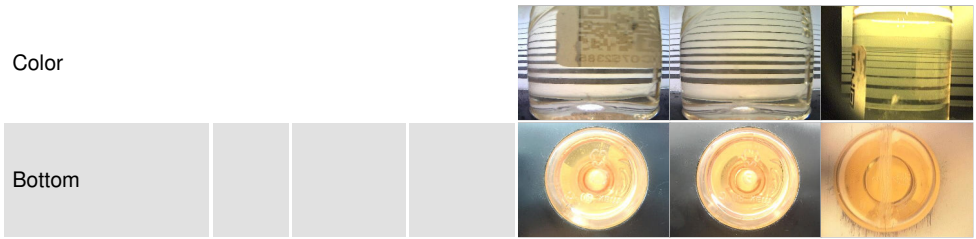
# OIL ANALYSIS REPORT



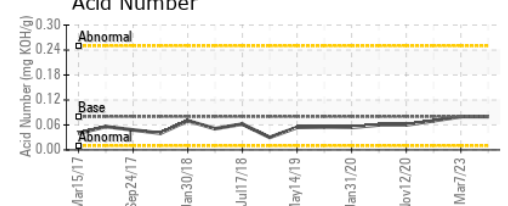
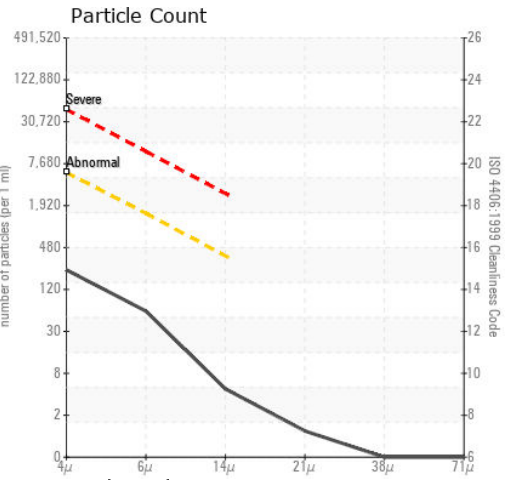
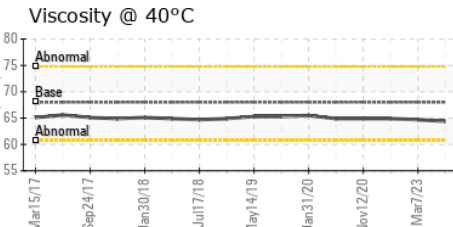
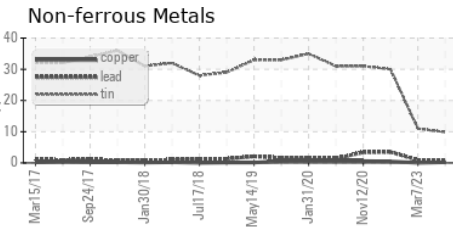
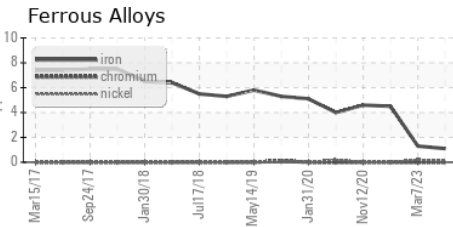
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	64.4	64.7

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.** : WC0752385 **Received** : 23 Aug 2023 **301 WALLACE TERRACE**  
**Lab Number** : 02577737 **Diagnosed** : 24 Aug 2023 **SAULT STE MARIE, ON**  
**Unique Number** : 5630797 **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.