



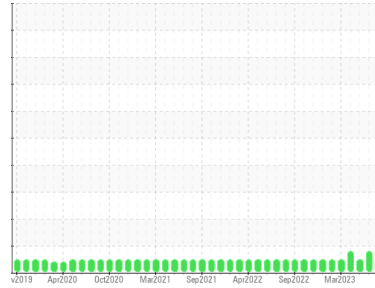
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Direct Strip Mill/Caster**  
 Machine Id  
**#1 COMPRESSOR (DSC088) (S/N 100029205)**  
 Component  
**Compressor**  
 Fluid  
**COMPRESSOR OIL ISO 32 (--- 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 water content is negligible. 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>WC0813758</b>	WC0813701	WC0780875
Sample Date	Client Info		<b>09 Aug 2023</b>	22 Jun 2023	16 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>	ATTENTION	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m) >25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m) >50	<b>3</b>	3	3
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<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>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m) 5	<b>29</b>	1	<1
Molybdenum	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	<1	0
Phosphorus	ppm	ASTM D5185(m) 150	<b>325</b>	349	371
Zinc	ppm	ASTM D5185(m) 5	<b>2</b>	2	<1
Sulfur	ppm	ASTM D5185(m) 5000	<b>140</b>	119	136
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

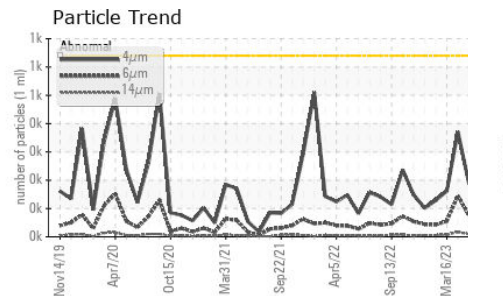
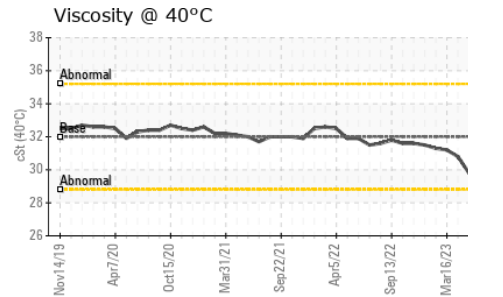
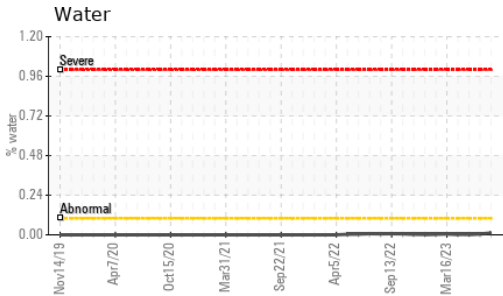
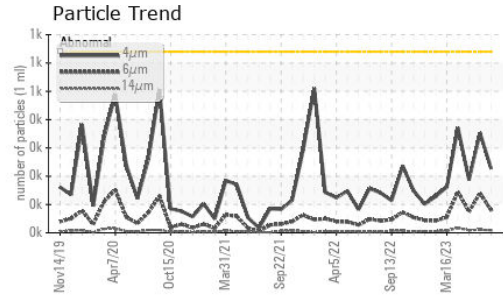
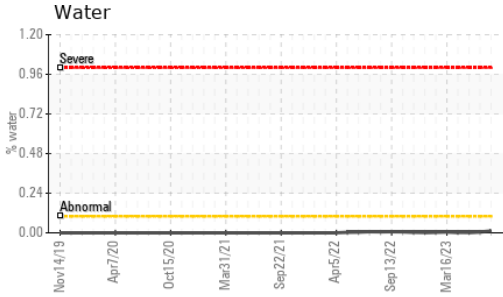
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>1</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0
Water	%	ASTM D6304* >0.1	<b>0.011</b>	0.005	0.001
ppm Water	ppm	ASTM D6304* >1000	<b>116.1</b>	50.1	13.8

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	<b>227</b>	353	187
Particles >6µm	ASTM D7647	>160	<b>80</b>	140	74
Particles >14µm	ASTM D7647	>10	<b>9</b>	▲ 11	9
Particles >21µm	ASTM D7647	>3	<b>2</b>	4	2
Particles >38µm	ASTM D7647	>3	<b>0</b>	0	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>16/14/10	<b>15/13/10</b>	▲ 16/14/11	15/13/10



# OIL ANALYSIS REPORT

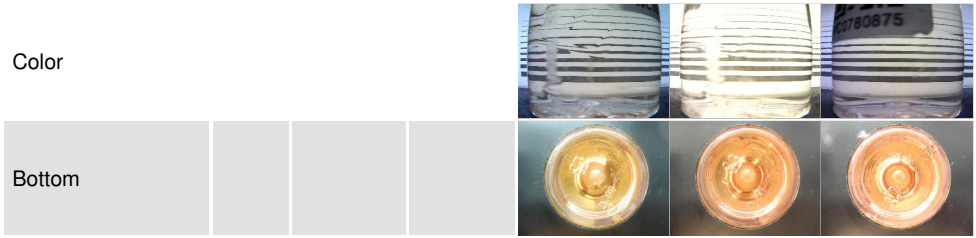


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.51	<b>0.13</b>	0.14	0.15

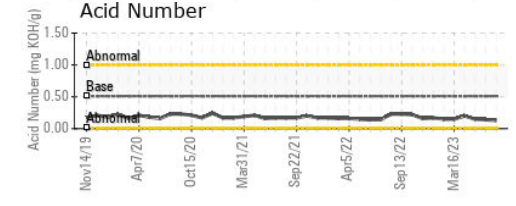
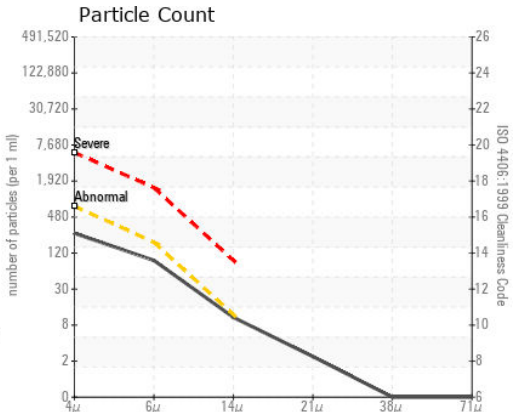
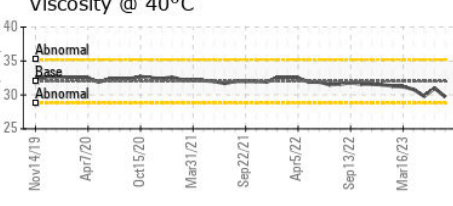
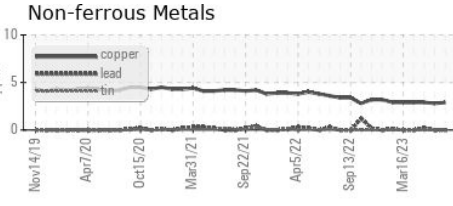
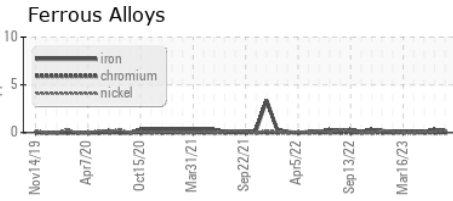
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	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	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32	<b>29.7</b>	31.0	29.8

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**  
**Sample No.** : WC0813758 **Received** : 11 Aug 2023 **301 WALLACE TERRACE**  
**Lab Number** : **02575385** **Diagnosed** : 14 Aug 2023 **SAULT STE MARIE, ON**  
**Unique Number** : 5620436 **Diagnostician** : Kevin Marson **CA P6C 1K8**  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount ) **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.*