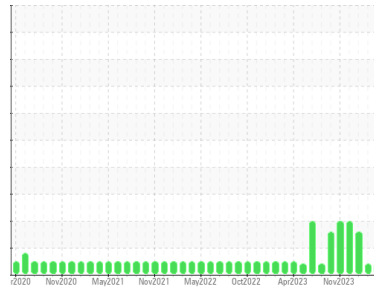




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area

Direct Strip Mill/Caster

Machine Id  
**#2 COMPRESSOR (DSC187) (S/N 100029210)**

Component

Compressor

Fluid

COMPRESSOR OIL ISO 32 (480 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 water content is negligible. The system and fluid cleanliness is acceptable.

#### Fluid Condition

Viscosity of sample indicates oil is within ISO 22 range, advise investigate. 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>WC0931240</b>	WC0837384	WC0837379
Sample Date	Client Info		<b>11 Jun 2024</b>	16 Apr 2024	29 Feb 2024
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>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)		<b>0</b>	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>0</b>	0
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0
Copper	ppm	ASTM D5185(m)	>50	<b>0</b>	0
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<b>2</b>	<1
Barium	ppm	ASTM D5185(m)	5	<b>370</b>	390
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0
Magnesium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	0
Calcium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	1
Phosphorus	ppm	ASTM D5185(m)	150	<b>11</b>	10
Zinc	ppm	ASTM D5185(m)	5	<b>2</b>	2
Sulfur	ppm	ASTM D5185(m)	5000	<b>205</b>	205
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

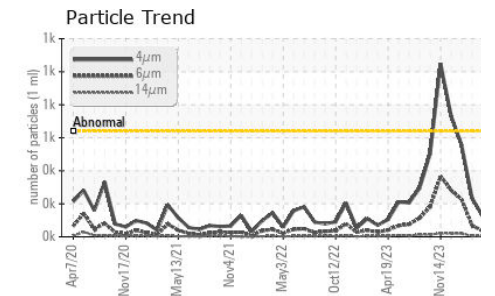
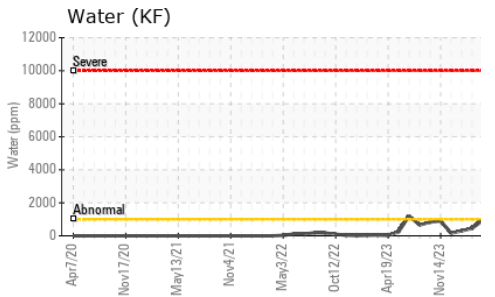
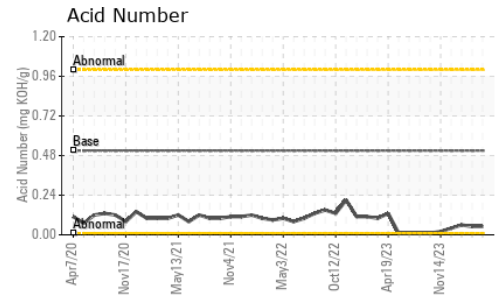
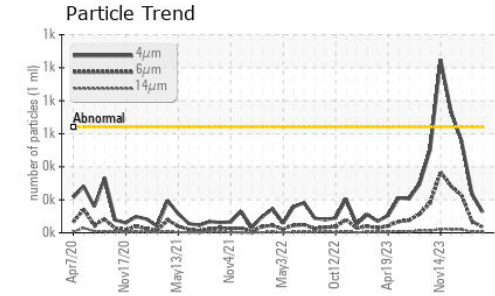
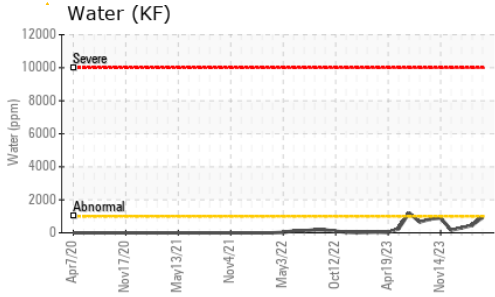
### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>0</b>	0
Sodium	ppm	ASTM D5185(m)		<b>11</b>	1
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1
Water	%	ASTM D6304*	>0.1	<b>0.093</b>	0.045
ppm Water	ppm	ASTM D6304*	>1000	<b>935</b>	455

### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	<b>125</b>	234	556
Particles >6µm	ASTM D7647	>160	<b>35</b>	69	227
Particles >14µm	ASTM D7647	>10	<b>4</b>	5	20
Particles >21µm	ASTM D7647	>3	<b>2</b>	2	4
Particles >38µm	ASTM D7647	>3	<b>0</b>	1	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>16/14/10	<b>14/12/9</b>	15/13/10	16/15/11

# OIL ANALYSIS REPORT

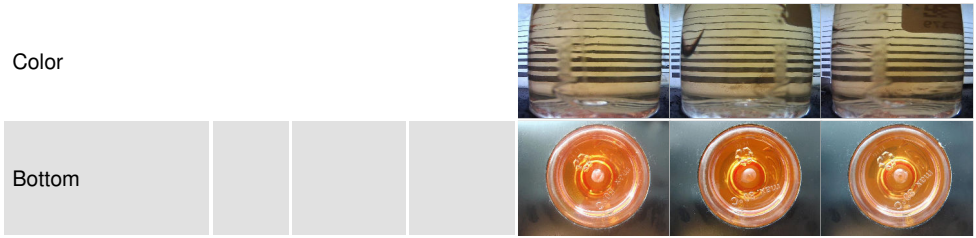


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.51	<b>0.05</b>	0.05	0.06

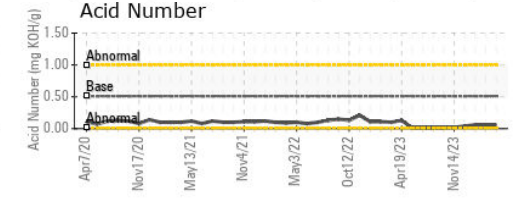
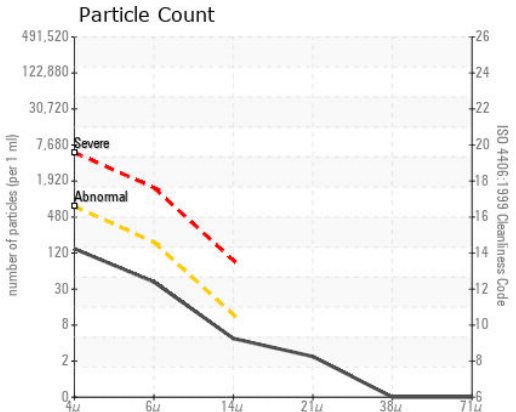
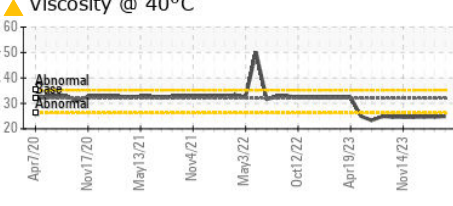
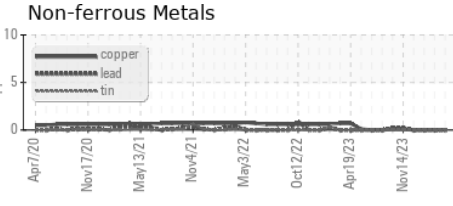
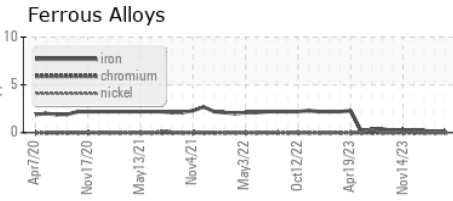
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	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>▲ 24.9</b>	▲ 24.7	▲ 24.7

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0931240  
**Lab Number** : 02642016  
**Unique Number** : 5799555  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )

**ALGOMA STEEL INC. - STORES DEPT.**  
 301 WALLACE TERRACE  
 SAULT STE MARIE, ON  
 CA P6C 1K8

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