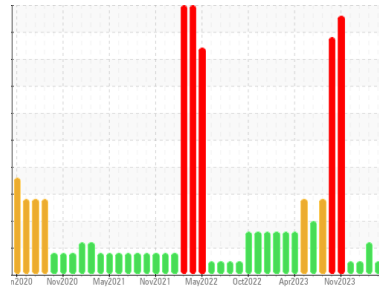




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**Direct Strip Mill/Finishing**

Machine Id

**RL7 COILER DRIVE LUBE SYSTEM (DSC022) (S/N 1000017430)**

Component

**Gear Lube System**

Fluid

**GEAR OIL ISO 460 (3000 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>WC0931152</b>	WC0837489	WC0837550
Sample Date	Client Info			<b>11 Jun 2024</b>	21 Apr 2024	28 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>NORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>29</b>	32	34
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>10	<b>0</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>23</b>	▲ 21	11
Lead	ppm	ASTM D5185(m)	>100	<b>0</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>11</b>	▲ 11	5
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

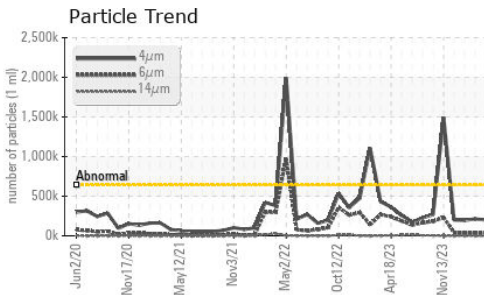
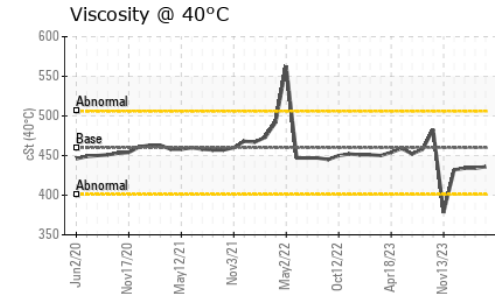
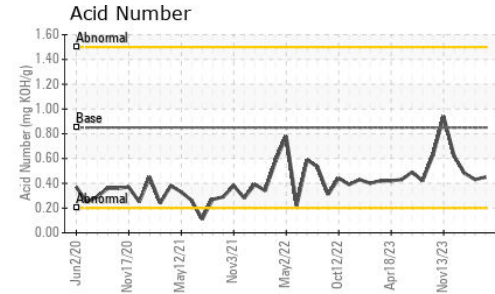
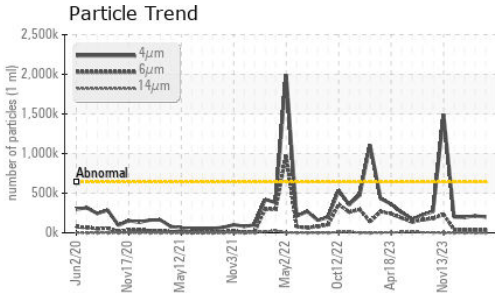
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	<b>1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	15	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	15	<b>7</b>	6	3
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	50	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	50	<b>1</b>	1	<1
Phosphorus	ppm	ASTM D5185(m)	350	<b>184</b>	175	192
Zinc	ppm	ASTM D5185(m)	100	<b>4</b>	4	4
Sulfur	ppm	ASTM D5185(m)	12500	<b>8957</b>	8270	9159
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>1</b>	<1	2
Sodium	ppm	ASTM D5185(m)		<b>20</b>	19	10
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640000	<b>200112</b>	213349	194976
Particles >6µm		ASTM D7647	>160000	<b>35926</b>	37248	34391
Particles >14µm		ASTM D7647	>40000	<b>368</b>	371	249
Particles >21µm		ASTM D7647	>10000	<b>40</b>	44	22
Particles >38µm		ASTM D7647	>2500	<b>1</b>	1	1
Particles >71µm		ASTM D7647	>640	<b>1</b>	1	1
Oil Cleanliness		ISO 4406 (c)	>26/24/22	<b>25/22/16</b>	25/22/16	25/22/15



# OIL ANALYSIS REPORT

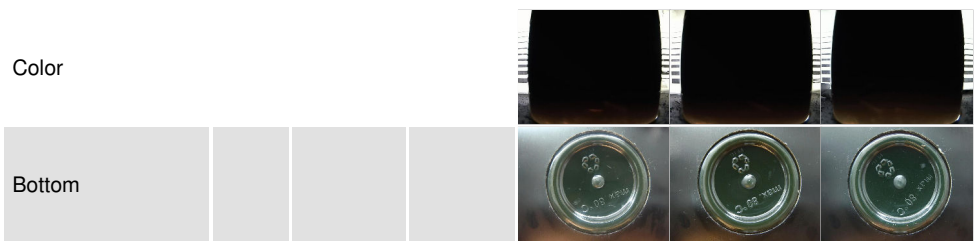


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.85	<b>0.45</b>	0.43	0.48

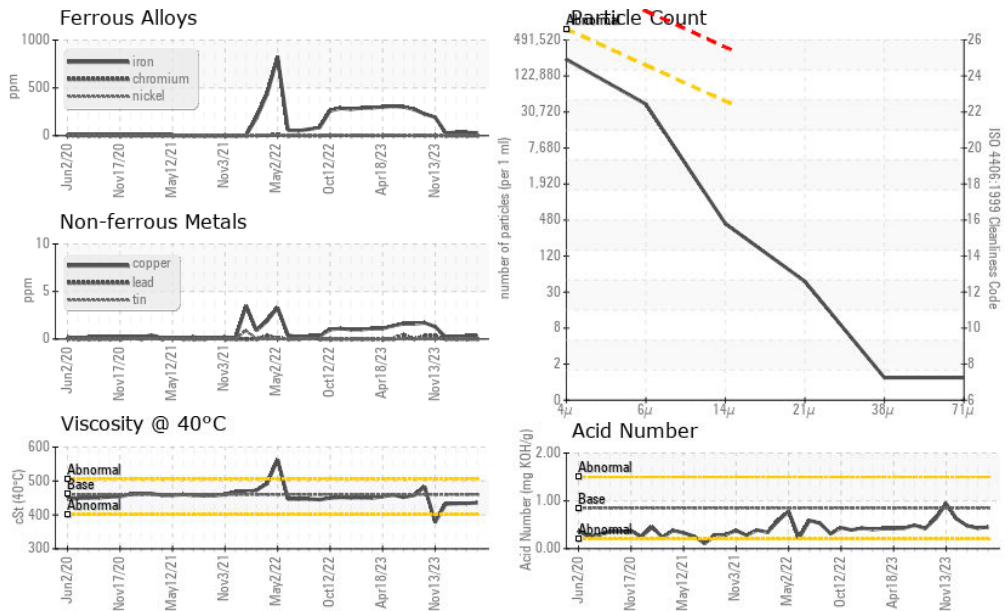
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	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)	460	<b>436</b>	434	434

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**  
**Sample No.** : WC0931152 **Received** : 14 Jun 2024 **301 WALLACE TERRACE**  
**Lab Number** : **02642104** **Tested** : 17 Jun 2024 **SAULT STE MARIE, ON**  
**Unique Number** : 5799643 **Diagnosed** : 17 Jun 2024 - Wes Davis **CA P6C 1K8**  
**Test Package** : IND 2 **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.