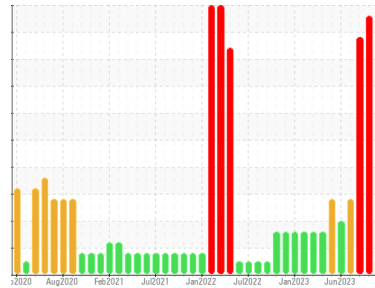




# OIL ANALYSIS REPORT

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>WC0837581</b>	WC0837427	WC0837466
Sample Date	Client Info			<b>18 Jan 2024</b>	13 Nov 2023	26 Sep 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>	SEVERE	SEVERE

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>28</b>	▲ 194	▲ 226
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	1	2
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	2	2
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>9</b>	■ 81	■ 95
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>4</b>	■ 44	■ 54
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

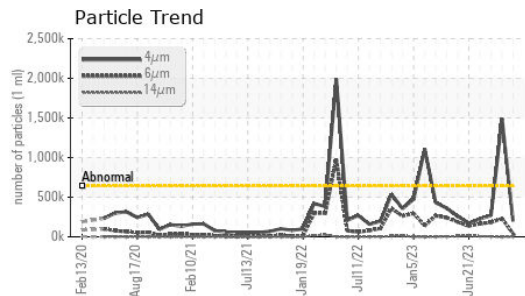
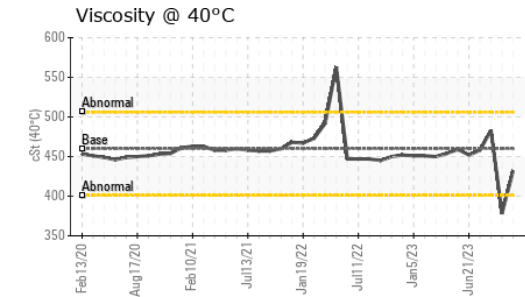
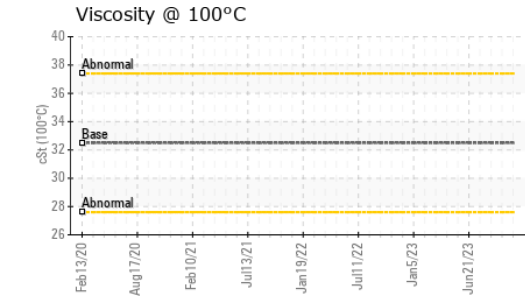
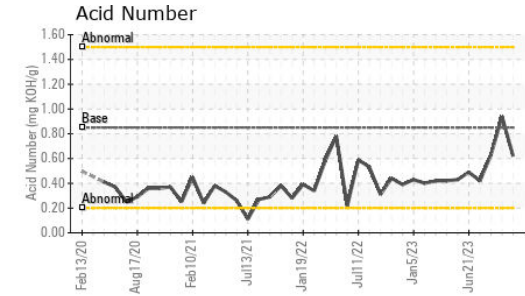
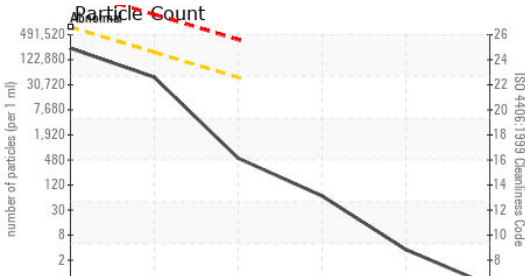
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	15	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	15	<b>2</b>	36	44
Manganese	ppm	ASTM D5185(m)		<b>0</b>	2	2
Magnesium	ppm	ASTM D5185(m)	50	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m)	50	<b>2</b>	3	4
Phosphorus	ppm	ASTM D5185(m)	350	<b>196</b>	125	162
Zinc	ppm	ASTM D5185(m)	100	<b>4</b>	2	3
Sulfur	ppm	ASTM D5185(m)	12500	<b>9237</b>	7744	8488
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>	2	2
Sodium	ppm	ASTM D5185(m)		<b>8</b>	77	83
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*		<b>3.5</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*		<b>12.3</b>	---	---



# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**  
**Sample No.** : WC0837581 **Received** : 22 Jan 2024  
**Lab Number** : 02610454 **Diagnosed** : 24 Jan 2024  
**Unique Number** : 5711540 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: FT-IR, KV100, TAN Man, VI )

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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640000	<b>199467</b>	▲ 1491692	269318
Particles >6µm	ASTM D7647	>160000	<b>40435</b>	▲ 230133	▲ 183509
Particles >14µm	ASTM D7647	>40000	<b>464</b>	465	4934
Particles >21µm	ASTM D7647	>10000	<b>58</b>	23	186
Particles >38µm	ASTM D7647	>2500	<b>3</b>	2	2
Particles >71µm	ASTM D7647	>640	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>26/24/22	<b>25/23/16</b>	▲ 28/25/16	▲ 25/25/19

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>3.1</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.62</b>	0.94	0.63

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	<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)	<b>432</b>	▲ 378	483
Visc @ 100°C	cSt	ASTM D7279(m)	<b>28.9</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>94</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

