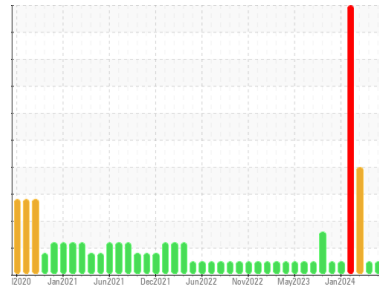




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

## Direct Strip Mill/Finishing

Machine Id  
**PL5 - F1/2 & SHEAR LUBE SYSTEM (DSC020) (S/N 1000017196)**

Component  
**Gear Lube System**

Fluid  
**GEAR OIL ISO 680 (25000 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>WC0931150</b>	WC0837487	WC0837548
Sample Date	Client Info			<b>11 Jun 2024</b>	16 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>	NORMAL	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>12</b>	12	56
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</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>1</b>	1	6
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	<1
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	3
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

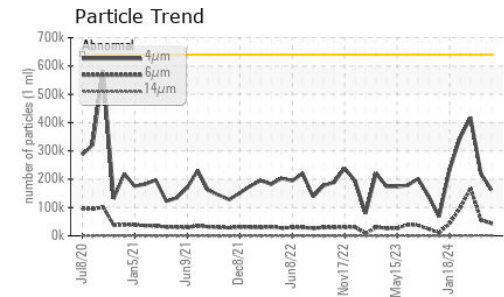
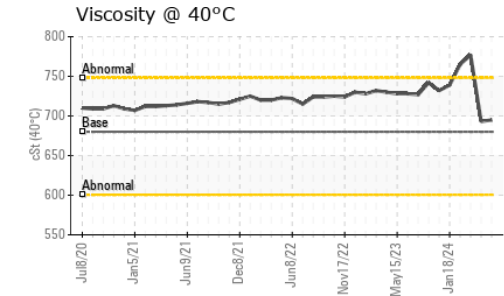
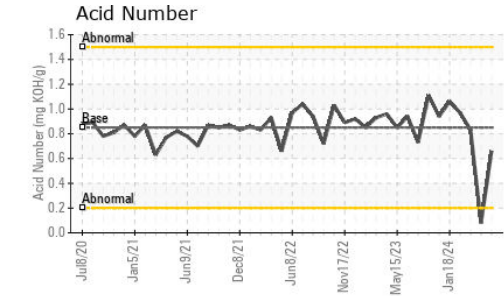
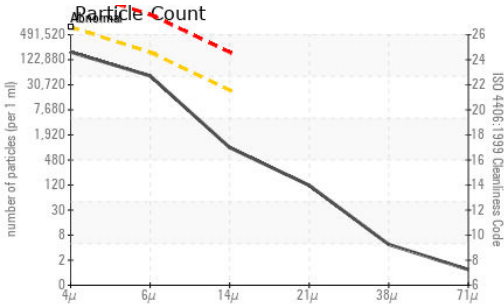
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	<b>&lt;1</b>	1	2
Barium	ppm	ASTM D5185(m)	15	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	15	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	50	<b>&lt;1</b>	1	<1
Calcium	ppm	ASTM D5185(m)	50	<b>1</b>	1	2
Phosphorus	ppm	ASTM D5185(m)	350	<b>218</b>	251	112
Zinc	ppm	ASTM D5185(m)	100	<b>2</b>	2	2
Sulfur	ppm	ASTM D5185(m)	12500	<b>9803</b>	9341	9399
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>3</b>	6	2
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640000	<b>161967</b>	218638	417607
Particles >6µm		ASTM D7647	>160000	<b>43572</b>	56371	168685
Particles >14µm		ASTM D7647	>20000	<b>837</b>	1474	939
Particles >21µm		ASTM D7647	>5000	<b>104</b>	148	86
Particles >38µm		ASTM D7647	>1300	<b>4</b>	5	5
Particles >71µm		ASTM D7647	>320	<b>1</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>26/24/21	<b>25/23/17</b>	25/23/18	26/25/17



# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.85	<b>0.66</b>	0.08	0.83

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	VLITE
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	▲ .5%
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	680	<b>695</b>	693	777

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			
Bottom			
PrtFilter	no image	no image	no image
MPC	no image	no image	no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0931150  
**Lab Number** : **02642106**  
**Unique Number** : 5799645  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**ALGOMA STEEL INC. - STORES DEPT.**  
 301 WALLACE TERRACE  
 SAULT STE MARIE, ON  
 CA P6C 1K8  
 Contact: Algoma Reliability  
 algomareliability@algoma.com  
 T: (705)206-1059  
 F: (705)945-3585

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.