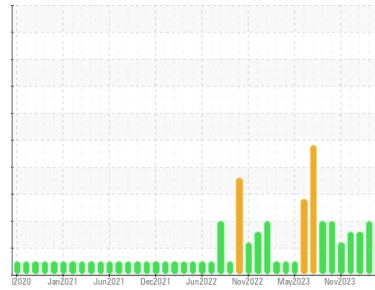




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

## Direct Strip Mill/Finishing

### PH3 HYDRAULIC SYSTEM (DSC004) (S/N 1000014662)

Machine Id

Component  
Hydraulic System

Fluid

HOUGHTON HOUGHTO-SAFE 620 (15000 LTR)

#### DIAGNOSIS

##### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

##### Wear

Component wear rates appear to be normal (unconfirmed).

##### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

##### Fluid Condition

The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration 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		WC0931094	WC0813577	WC0837440
Sample Date	Client Info		11 Jun 2024	21 Apr 2024	28 Feb 2024
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ATTENTION	ABNORMAL	ABNORMAL

#### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	0	0
Chromium	ppm	ASTM D5185(m)	>4	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0
Titanium	ppm	ASTM D5185(m)		0	0
Silver	ppm	ASTM D5185(m)		<1	<1
Aluminum	ppm	ASTM D5185(m)	>4	0	0
Lead	ppm	ASTM D5185(m)	>10	0	0
Copper	ppm	ASTM D5185(m)	>60	0	0
Tin	ppm	ASTM D5185(m)	>4	0	0
Antimony	ppm	ASTM D5185(m)		<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0
Beryllium	ppm	ASTM D5185(m)		0	0
Cadmium	ppm	ASTM D5185(m)		0	0

#### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1
Barium	ppm	ASTM D5185(m)		1	<1
Molybdenum	ppm	ASTM D5185(m)		0	0
Manganese	ppm	ASTM D5185(m)		0	0
Magnesium	ppm	ASTM D5185(m)		<1	0
Calcium	ppm	ASTM D5185(m)		<1	<1
Phosphorus	ppm	ASTM D5185(m)		0	<1
Zinc	ppm	ASTM D5185(m)		0	0
Sulfur	ppm	ASTM D5185(m)		48	44
Lithium	ppm	ASTM D5185(m)		<1	<1

#### CONTAMINANTS

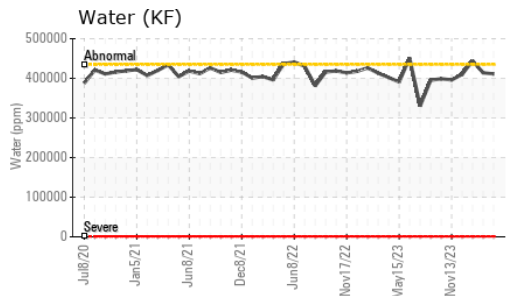
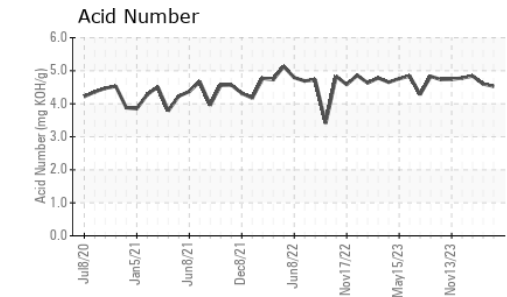
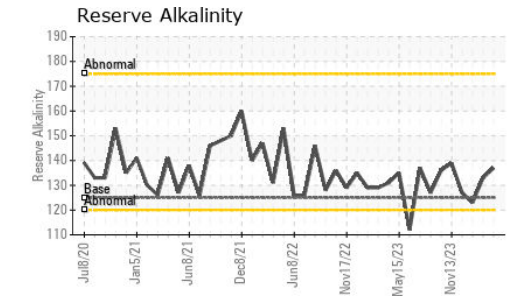
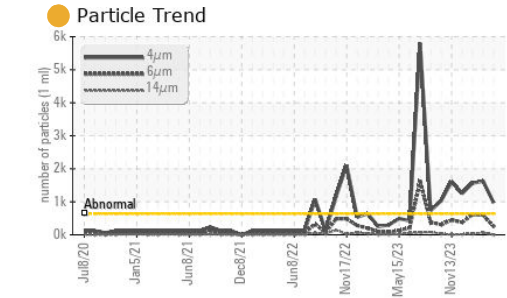
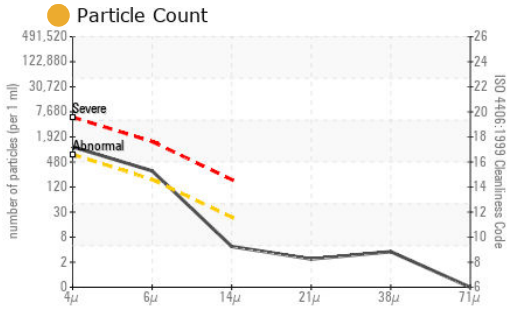
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<1	<1
Sodium	ppm	ASTM D5185(m)		23	6
Potassium	ppm	ASTM D5185(m)	>20	8	0
Water	%	ASTM D6304*	>43.5	41.1	41.4
ppm Water	ppm	ASTM D6304*	>435000	411000	414000

#### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	972	1627	1565
Particles >6µm	ASTM D7647	>160	258	599	614
Particles >14µm	ASTM D7647	>20	4	65	29
Particles >21µm	ASTM D7647	>4	2	13	5
Particles >38µm	ASTM D7647	>3	3	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>16/14/11	17/15/9	18/16/13	18/16/12



# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0931094  
**Lab Number** : 02642166  
**Unique Number** : 5799705  
**Test Package** : IND 2 ( Additional Tests: KF, pH, ReserveAlk, 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.

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>4.53</b>	4.60	4.84
Alkiline Reserve (Oils)	ml KOH/g	ASTM D1121*	<b>137</b>	133	123

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	<b>NONE</b>	NONE	NONE
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>FRGLY</b>	FRGLY	FRGLY
Odor	scalar	Visual*	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	<b>NEG</b>	>10%	>10%
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287*	<b>9.46</b>	9.45	9.44
Visc @ 40°C	cSt	ASTM D7279(m)	<b>41.5</b>	41.7	41.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

