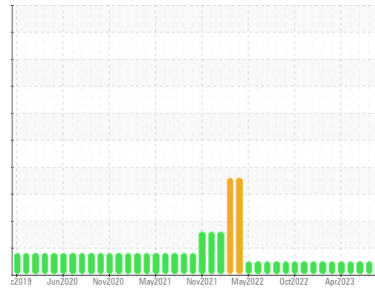




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Direct Strip Mill/Caster
 Machine Id
LLO.4 CIRCULATING LUBE OIL SYSTEM (DSC033) (S/N 1000026165)
 Component
Gear Lube System
 Fluid
GEAR OIL ISO 460 (3720 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		WC0837305	WC0813757	WC0813700
Sample Date	Client Info		27 Sep 2023	09 Aug 2023	22 Jun 2023
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			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >150	17	8	3
Chromium	ppm	ASTM D5185(m) >10	0	0	0
Nickel	ppm	ASTM D5185(m) >10	<1	0	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	<1	0	0
Aluminum	ppm	ASTM D5185(m) >25	<1	<1	<1
Lead	ppm	ASTM D5185(m) >100	<1	0	<1
Copper	ppm	ASTM D5185(m) >50	<1	<1	<1
Tin	ppm	ASTM D5185(m) >10	0	0	0
Antimony	ppm	ASTM D5185(m) >5	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<1	<1	<1
Barium	ppm	ASTM D5185(m) 15	<1	0	0
Molybdenum	ppm	ASTM D5185(m) 15	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0
Magnesium	ppm	ASTM D5185(m) 50	0	<1	<1
Calcium	ppm	ASTM D5185(m) 50	<1	<1	2
Phosphorus	ppm	ASTM D5185(m) 350	238	268	286
Zinc	ppm	ASTM D5185(m) 100	4	3	3
Sulfur	ppm	ASTM D5185(m) 12500	9918	9401	10019
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	3	4	3
Sodium	ppm	ASTM D5185(m)	<1	0	<1
Potassium	ppm	ASTM D5185(m) >20	0	0	<1

FLUID CLEANLINESS

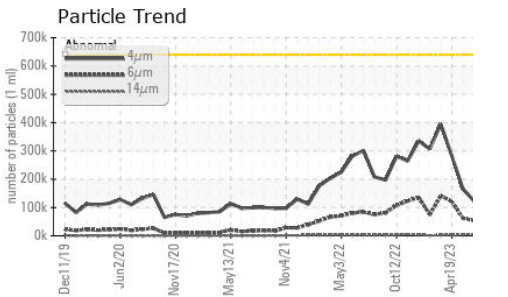
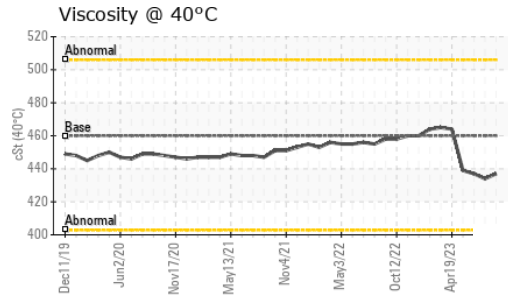
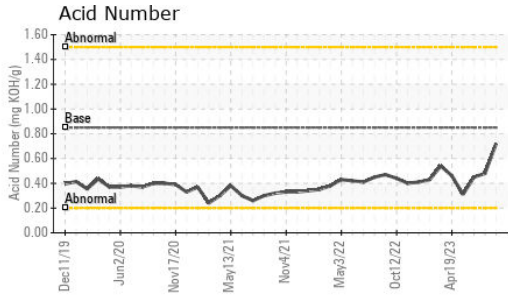
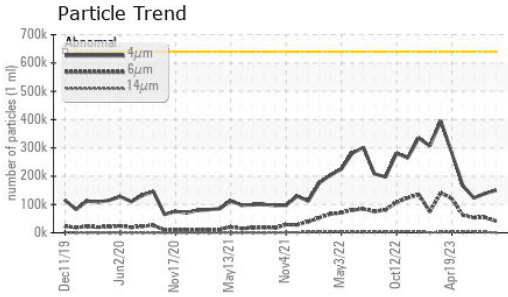
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640000	150185	138943	123183
Particles >6µm	ASTM D7647	>160000	41246	54400	53404
Particles >14µm	ASTM D7647	>40000	831	2435	3342
Particles >21µm	ASTM D7647	>10000	74	289	582
Particles >38µm	ASTM D7647	>2500	1	3	13
Particles >71µm	ASTM D7647	>640	0	2	8
Oil Cleanliness	ISO 4406 (c)	>26/24/22	24/23/17	24/23/18	24/23/19

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.85	0.72	0.48	0.45



OIL ANALYSIS REPORT

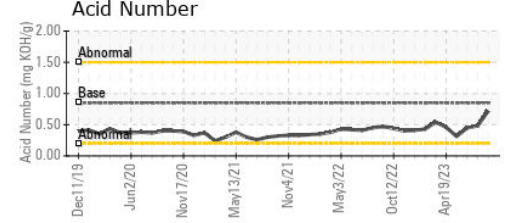
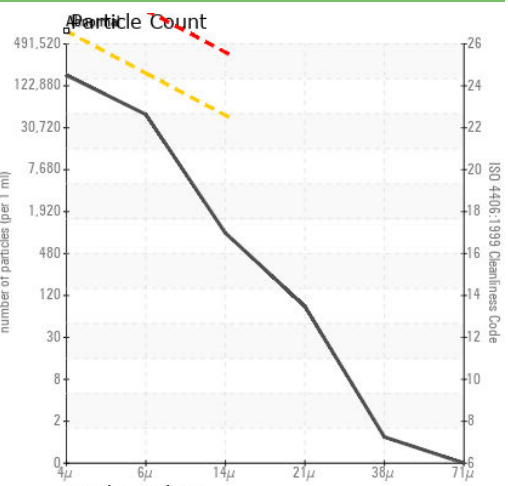
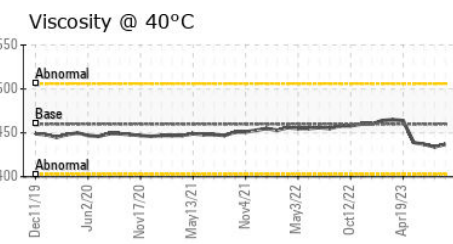
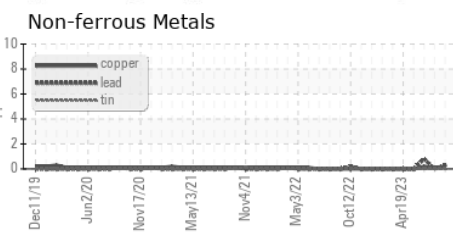
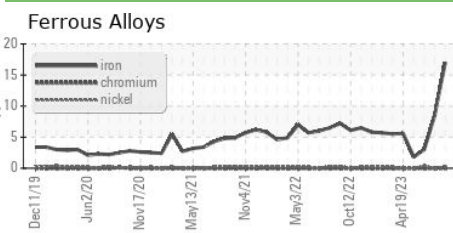


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	460	437	434

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**
Sample No. : WC0837305 **Received** : 02 Oct 2023 **301 WALLACE TERRACE**
Lab Number : 02586196 **Diagnosed** : 03 Oct 2023 **SAULT STE MARIE, ON**
Unique Number : 5655262 **Diagnostician** : Wes Davis **CA P6C 1K8**
Test Package : IND 2 (Additional Tests: TAN Man) **Contact: Algoma Reliability**
algomareliability@algoma.com
 To discuss this sample report, contact Customer Service at 1-800-268-2131. **T: (705)206-1059**
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **F: (705)945-3585**
 Validity of results and interpretation are based on the sample and information as supplied.