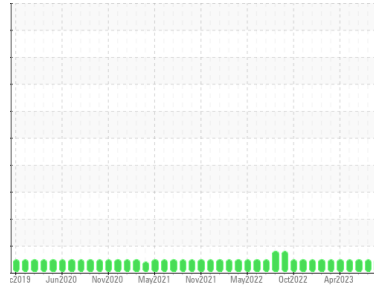




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Direct Strip Mill/Caster
 Machine Id
#3 COMPRESSOR (DSC140) (S/N 100029216)
 Component
Compressor
 Fluid
COMPRESSOR OIL ISO 32 (--- GAL)

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 water content is negligible. 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	WC0837308	WC0780854	WC0813703
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)	>50	<1	1	1
Chromium ppm ASTM D5185(m)	>10	0	0	0
Nickel ppm ASTM D5185(m)		0	<1	<1
Titanium ppm ASTM D5185(m)		0	0	0
Silver ppm ASTM D5185(m)		<1	0	0
Aluminum ppm ASTM D5185(m)	>25	0	0	<1
Lead ppm ASTM D5185(m)	>25	<1	0	<1
Copper ppm ASTM D5185(m)	>50	3	3	3
Tin ppm ASTM D5185(m)	>15	2	2	2
Antimony ppm ASTM D5185(m)		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)	5	<1	<1	0
Barium ppm ASTM D5185(m)	5	23	<1	1
Molybdenum ppm ASTM D5185(m)	5	0	0	0
Manganese ppm ASTM D5185(m)		0	0	0
Magnesium ppm ASTM D5185(m)	5	0	0	<1
Calcium ppm ASTM D5185(m)	5	<1	<1	<1
Phosphorus ppm ASTM D5185(m)	150	297	337	354
Zinc ppm ASTM D5185(m)	5	<1	2	2
Sulfur ppm ASTM D5185(m)	5000	122	117	113
Lithium ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

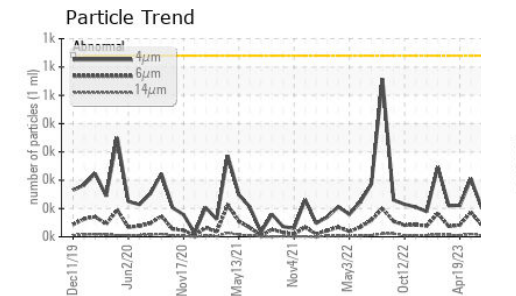
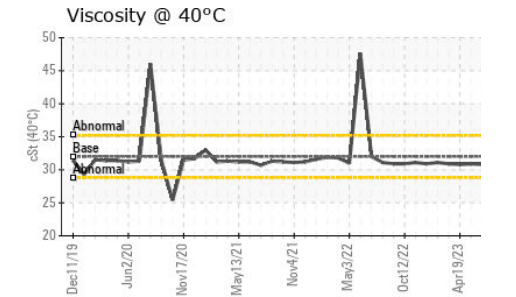
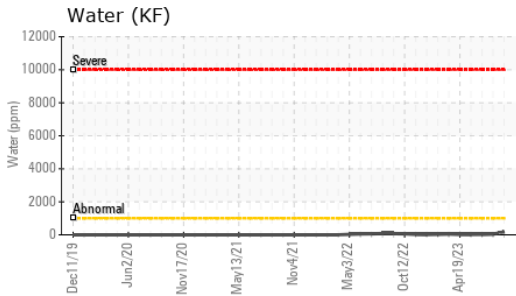
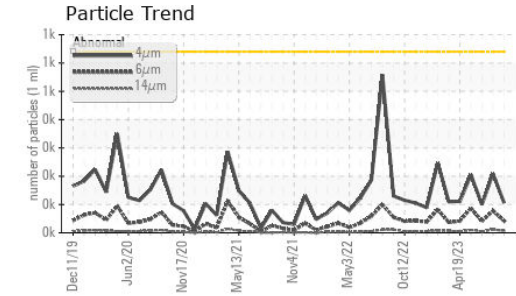
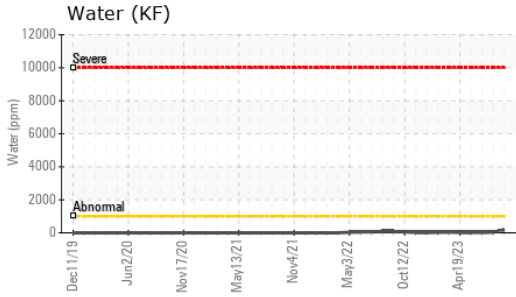
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	<1	1	<1
Sodium ppm ASTM D5185(m)		<1	0	<1
Potassium ppm ASTM D5185(m)	>20	<1	0	<1
Water % ASTM D6304*	>0.1	0.017	0.003	0.002
ppm Water ppm ASTM D6304*	>1000	179.0	39.4	18.5

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>640	106	209	100
Particles >6µm ASTM D7647	>160	42	78	41
Particles >14µm ASTM D7647	>10	7	12	4
Particles >21µm ASTM D7647	>3	2	4	1
Particles >38µm ASTM D7647	>3	0	0	0
Particles >71µm ASTM D7647	>3	0	0	0
Oil Cleanliness ISO 4406 (c)	>16/14/10	14/13/10	15/13/11	14/13/9



OIL ANALYSIS REPORT

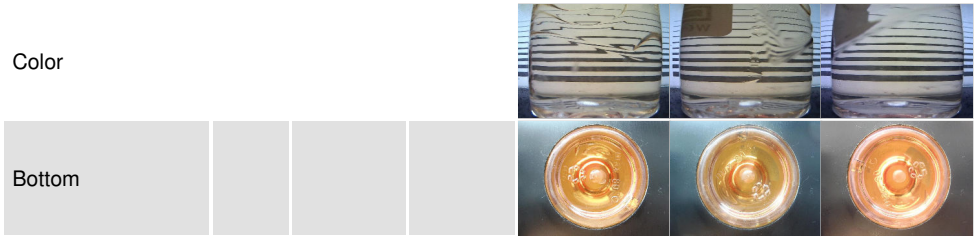


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.51	0.11	0.11	0.12

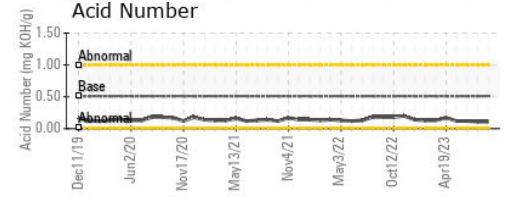
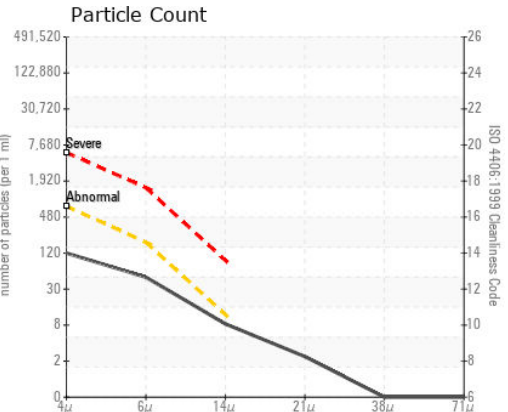
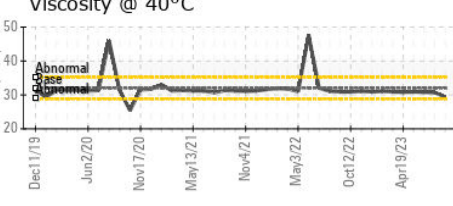
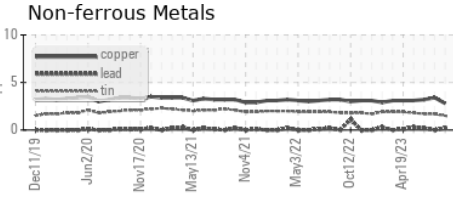
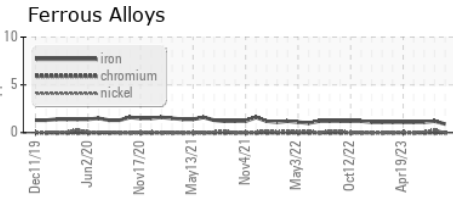
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32	29.4	30.7	30.8

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**
Sample No. : WC0837308 **Received** : 02 Oct 2023 **301 WALLACE TERRACE**
Lab Number : **02586133** **Diagnosed** : 04 Oct 2023 **SAULT STE MARIE, ON**
Unique Number : 5655199 **Diagnostician** : Kevin Marson **CA P6C 1K8**
Test Package : IND 2 (Additional Tests: KF, PrtCount) **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.