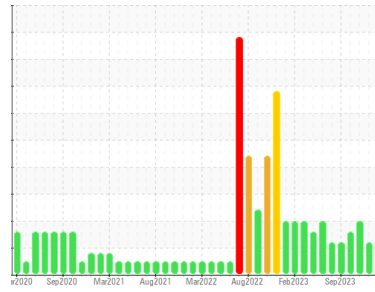




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

Direct Strip Mill/Caster

Machine Id

TSC 460 BULK (S/N DSC 205)

Component

New (Unused) Oil

Fluid

GEAR OIL ISO 460 (5000 LTR)

DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

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 condition of the oil is suitable for service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0837393	WC0837437	WC0837558
Sample Date	Client Info		16 Apr 2024	29 Feb 2024	18 Jan 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	ATTENTION	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >5	<1	<1	<1
Chromium	ppm	ASTM D5185(m) >5	0	0	0
Nickel	ppm	ASTM D5185(m) >5	0	0	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m) >5	0	0	0
Aluminum	ppm	ASTM D5185(m) >5	0	<1	<1
Lead	ppm	ASTM D5185(m) >5	0	0	0
Copper	ppm	ASTM D5185(m) >5	0	0	0
Tin	ppm	ASTM D5185(m) >5	0	0	0
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) 50	<1	0	<1
Barium	ppm	ASTM D5185(m) 15	0	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	0
Calcium	ppm	ASTM D5185(m) 50	2	2	<1
Phosphorus	ppm	ASTM D5185(m) 350	263	282	264
Zinc	ppm	ASTM D5185(m) 100	2	<1	1
Sulfur	ppm	ASTM D5185(m) 12500	9309	10262	9702
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

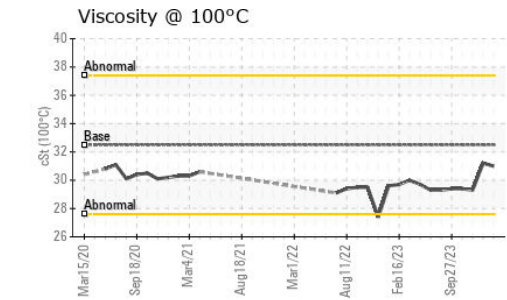
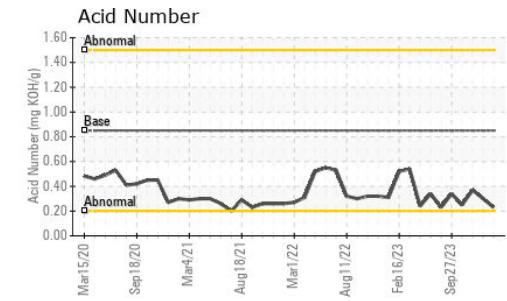
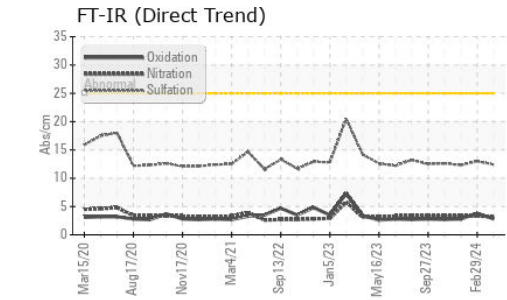
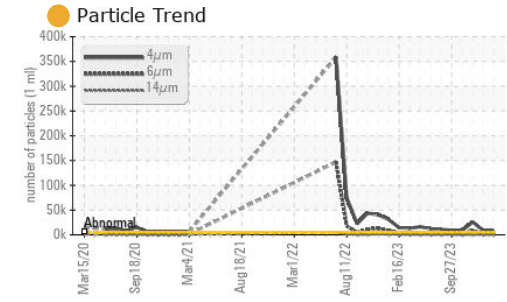
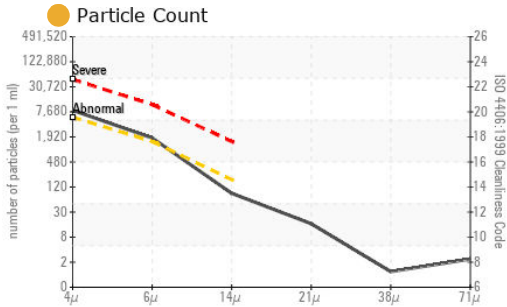
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	10	11	6
Sodium	ppm	ASTM D5185(m)	0	0	0
Potassium	ppm	ASTM D5185(m) >20	0	<1	<1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	0	0
Nitration	Abs/cm	ASTM D7624*	3.2	3.3	3.3
Sulfation	Abs./1mm	ASTM D7415*	12.4	13.0	12.3



OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0837393
Lab Number : 02630760
Unique Number : 5763892
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, VI)

ALGOMA STEEL INC. - STORES DEPT.
 301 WALLACE TERRACE
 SAULT STE MARIE, ON
 CA P6C 1K8

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.

Contact: Algoma Reliability
 algomareliability@algoma.com
 T: (705)206-1059
 F: (705)945-3585

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	7270	8989	26124
Particles >6µm	ASTM D7647	>1300	1589	2041	8173
Particles >14µm	ASTM D7647	>160	75	91	447
Particles >21µm	ASTM D7647	>40	14	23	98
Particles >38µm	ASTM D7647	>10	1	4	11
Particles >71µm	ASTM D7647	>3	2	1	3
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/18/13	20/18/14	22/20/16

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	2.8	3.8	2.8
Acid Number (AN)	mg KOH/g	ASTM D974*	0.23	0.30	0.37

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*	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)	460	465	435
Visc @ 100°C	cSt	ASTM D7279(m)	32.5	31.0	29.3
Viscosity Index (VI)	Scale	ASTM D2270*	103	96	95

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

