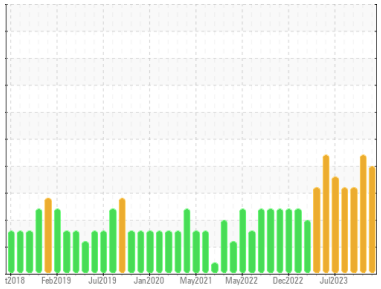
COOLANT REPORT

Sample Rating Trend



DEGRADATION

Area
RHOB/HYDRAULICS
Machine Id
E - Ladle Lift Hydraulics
Component
Tank Hydraulic System
Fluid
FORSYTHE NO FIRE WG 200R (1320 GAL)

DIAGNOSIS

Recommendation

Due to the low reserve alkalinity it is advised that you contact FORSYTHE to assist in restoring the proper amine concentration. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

Copper ppm levels are abnormal. Oil cooler core leaching or motor piston wear is indicated.

Contamination

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

Fluid Condition

The reserve alkalinity of this fluid is lower than acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The water concentration level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0901984**	WC0890386	WC0871214
Sample Date		Client Info		**22 Jan 2024**	15 Dec 2023	16 Oct 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				**ABNORMAL**	ABNORMAL	ABNORMAL

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

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**<1**	<1	<1
Phosphorus	ppm	ASTM D5185(m)		**1**	2	<1
Boron	ppm	ASTM D5185(m)		**<1**	<1	<1
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**0**	0	0
Copper	ppm	ASTM D5185(m)	>20	▲ **28**	▲ 30	▲ 24
Lead	ppm	ASTM D5185(m)	>20	**0**	0	0
Tin	ppm	ASTM D5185(m)	>20	**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	<1	<1
Zinc	ppm	ASTM D5185(m)		**10**	13	6

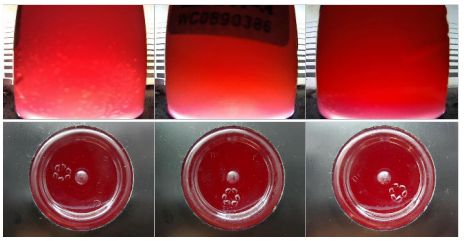
CONTAMINANTS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **12481**	▲ 22851	3252
Particles >6µm		ASTM D7647	>1300	▲ **3883**	▲ 6338	939
Particles >14µm		ASTM D7647	>160	▲ **295**	▲ 341	157
Particles >21µm		ASTM D7647	>40	**40**	▲ 65	▲ 71
Particles >38µm		ASTM D7647	>10	**0**	8	▲ 17
Particles >71µm		ASTM D7647	>3	**0**	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/19/15**	▲ 22/20/16	19/17/14

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**164**	166	153
Potassium	ppm	ASTM D5185(m)		**20**	12	21

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**<1**	<1	0

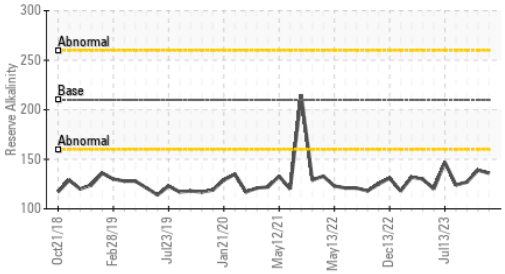
COOLANT REPORT

VISUAL	method	limit/base	current	history1	history2
Color					
Bottom					

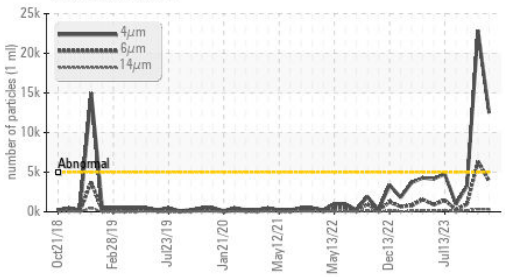


GRAPHS

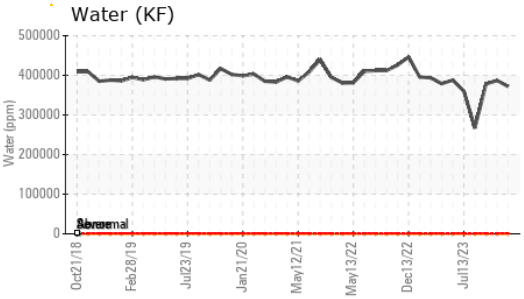
Reserve Alkalinity



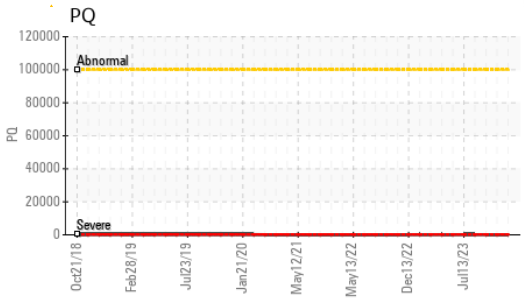
Particle Trend



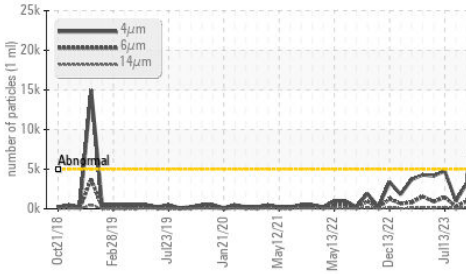
Water (KF)



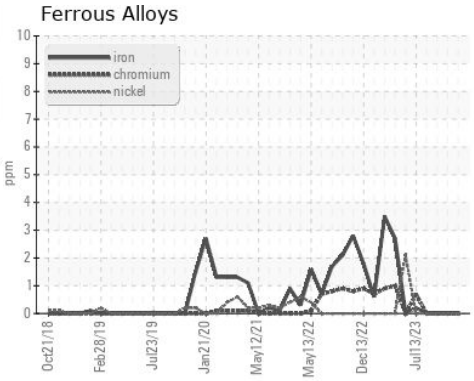
PQ



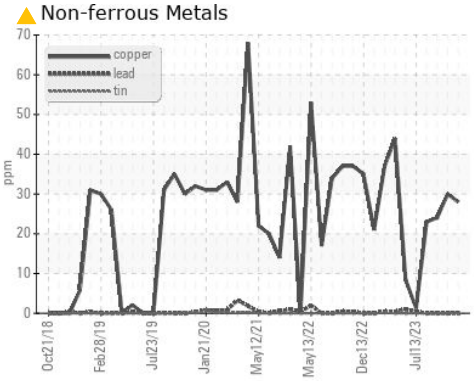
Particle Trend



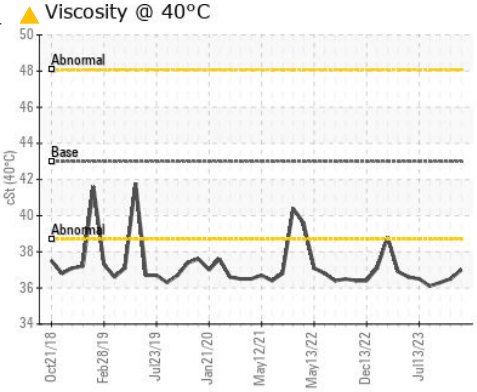
Ferrous Alloys



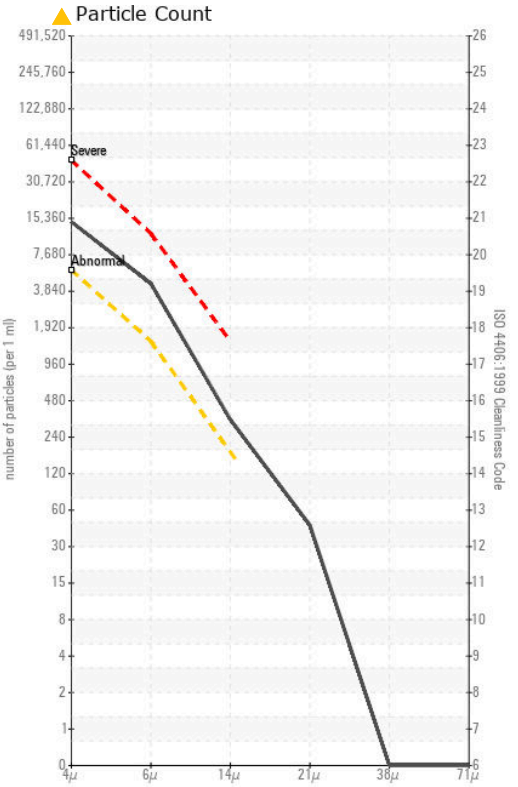
Non-ferrous Metals



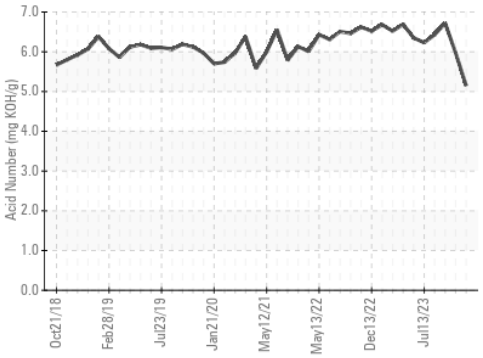
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9	**STELCO - BOSC - Basic Oxygen Slab Caster**	
Sample No.	: WC0901984	**Recieved**	: 23 Jan 2024
Lab Number	: 02610767	**Diagnosed**	: 29 Jan 2024
Unique Number	: 5711853	**Diagnostician**	: Bill Quesnel
Test Package	: IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk)		

2330 Regional Road #3, Door: BOSC8
NANTICOKE, ON
CA N0A 1L0
Contact: Tom Walden
Thomas.Walden@stelco.com
T: (519)587-4541
F: (519)587-7702

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.