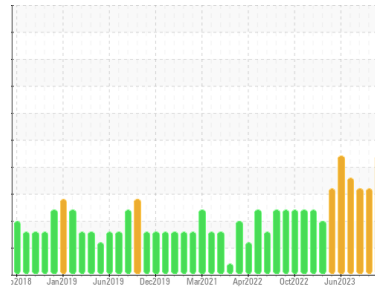




# COOLANT REPORT

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. 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

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	<b>WC0890386</b>	WC0871214	WC0850110
Sample Date	Client Info	<b>15 Dec 2023</b>	16 Oct 2023	16 Aug 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>NEG</b>	NEG	NEG

## CORROSION INHIBITORS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0
Phosphorus	ppm ASTM D5185(m)	<b>2</b>	<1	0
Boron	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	0

## CORROSION

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	>20 <b>0</b>	0	0
Aluminum	ppm ASTM D5185(m)	>20 <b>0</b>	0	0
Copper	ppm ASTM D5185(m)	>20 <b>▲ 30</b>	▲ 24	▲ 23
Lead	ppm ASTM D5185(m)	>20 <b>0</b>	0	0
Tin	ppm ASTM D5185(m)	>20 <b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<1 <b>&lt;1</b>	<1	▲ 2
Zinc	ppm ASTM D5185(m)	<1 <b>13</b>	6	10

## CONTAMINANTS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000 <b>▲ 22851</b>	3252	963
Particles >6µm	ASTM D7647	>1300 <b>▲ 6338</b>	939	271
Particles >14µm	ASTM D7647	>160 <b>▲ 341</b>	157	27
Particles >21µm	ASTM D7647	>40 <b>▲ 65</b>	▲ 71	2
Particles >38µm	ASTM D7647	>10 <b>8</b>	▲ 17	0
Particles >71µm	ASTM D7647	>3 <b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14 <b>▲ 22/20/16</b>	19/17/14	17/15/12

## CARRIER SALTS

method	limit/base	current	history1	history2
Sodium	ppm ASTM D5185(m)	<b>166</b>	153	176
Potassium	ppm ASTM D5185(m)	<b>12</b>	21	12

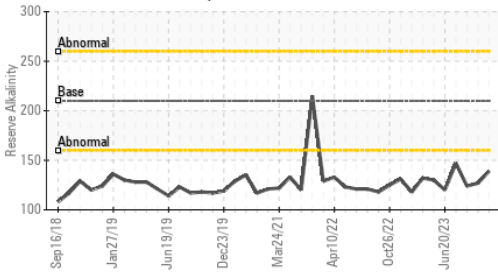
## SCALE POTENTIAL

method	limit/base	current	history1	history2
Calcium	ppm ASTM D5185(m)	<1 <b>&lt;1</b>	<1	6
Magnesium	ppm ASTM D5185(m)	<1 <b>&lt;1</b>	0	<1



# COOLANT REPORT

## Reserve Alkalinity



## VISUAL

Color

Bottom

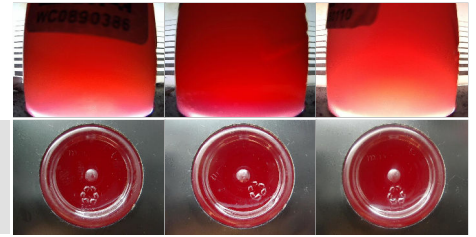
method

limit/base

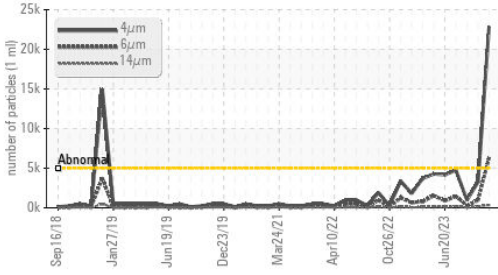
current

history1

history2

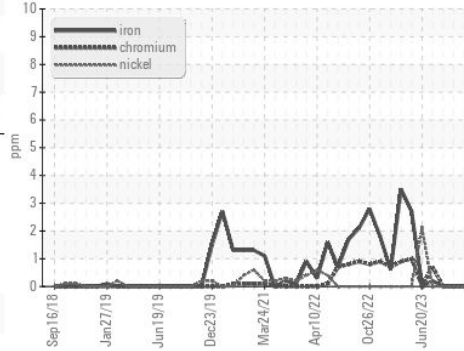


## Particle Trend

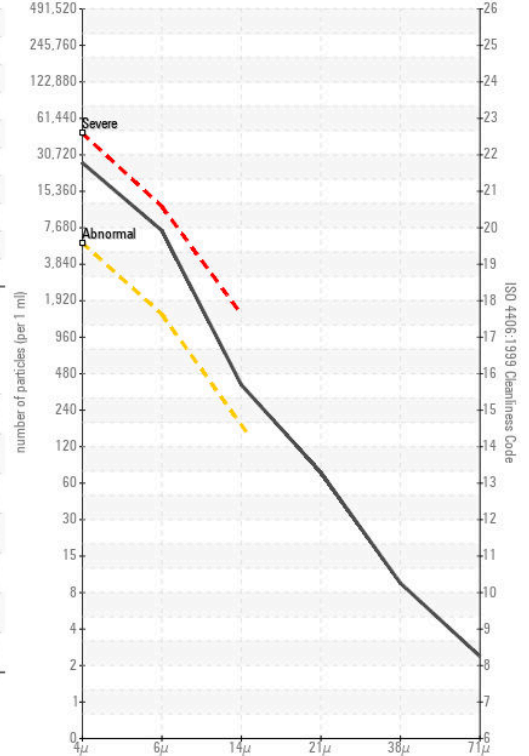


## GRAPHS

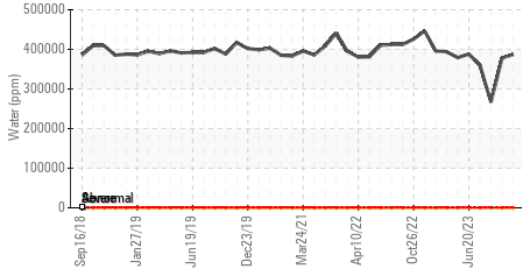
### Ferrous Alloys



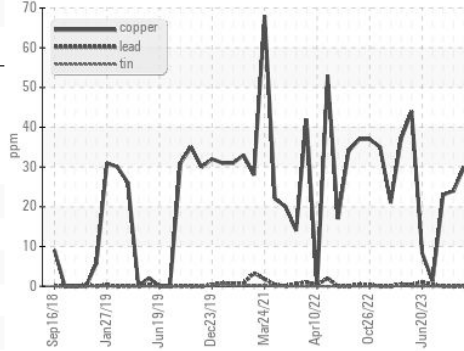
### Particle Count



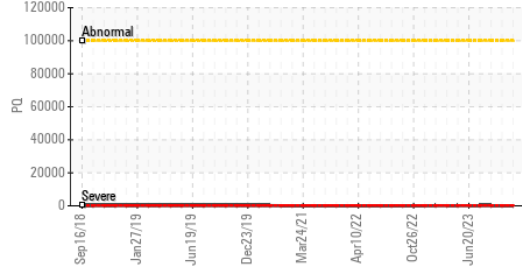
## Water (KF)



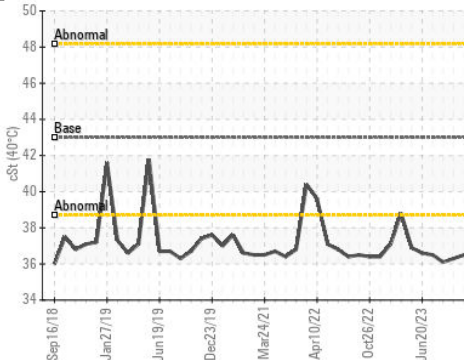
### Non-ferrous Metals



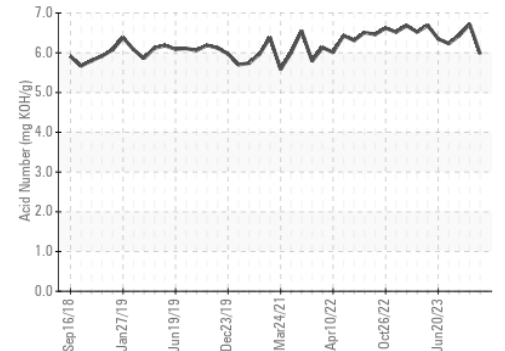
## PQ



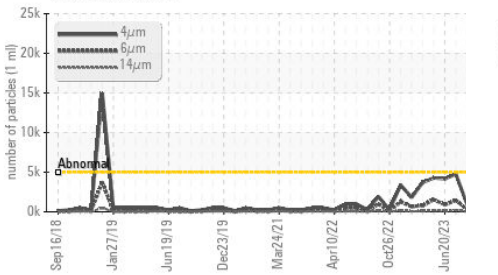
### Viscosity @ 40°C



### Acid Number



## Particle Trend



ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Lab Number

Unique Number

Test Package

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 STELCO - BOSC - Basic Oxygen Slab Caster

: WC0890386

Received : 15 Dec 2023

Diagnosed : 21 Dec 2023

Diagnostician : Kevin Marson

: IND 2 ( Additional Tests: KF, pH, PQ, ReserveAlk, TAN Man )

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.