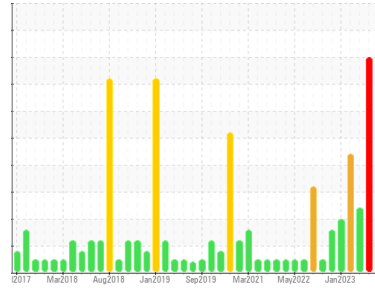




PROBLEM SUMMARY

Sample Rating Trend

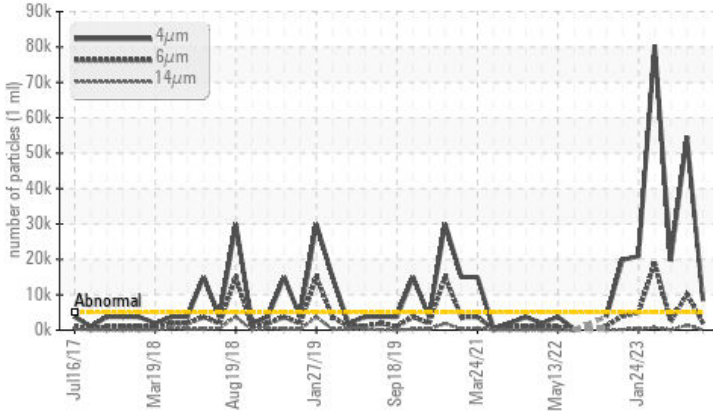
ISO



Area
BOF/DESULF
 Machine Id
D Desulph Skimmer East
 Component
Hydraulic System
 Fluid
FORSYTHE NO FIRE WG 200R (130 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	SEVERE	ABNORMAL
Particles >4µm	ASTM D7647	>5000	▲ 8421	● 54615	▲ 19664
Particles >6µm	ASTM D7647	>1300	▲ 1997	● 10152	▲ 2513
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/14	● 23/21/18	▲ 21/19/13

Customer Id: LEWBOSC
 Sample No.: WC0850085
 Lab Number: 02576291
 Test Package: IND 2



To manage this report scan the QR code







To discuss the diagnosis or test data:
 Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

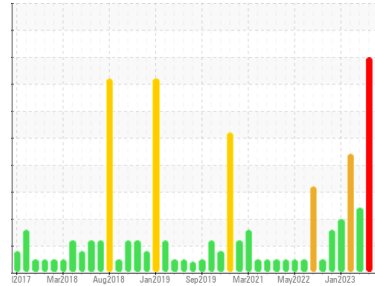
HISTORICAL DIAGNOSIS

<p>ISO</p> 	<p>13 Jul 2023 Diag: Kevin Marson</p> <p>We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. 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.</p>	<p>view report</p> 
<p>WEAR</p> 	<p>20 Jun 2023 Diag: Kevin Marson</p> <p>We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Titanium ppm levels are marginal. All other component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid.</p>	<p>view report</p> 
<p>ISO</p> 	<p>30 May 2023 Diag: Kevin Marson</p> <p>We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. 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.</p>	<p>view report</p> 



COOLANT REPORT

Sample Rating Trend



ISO



Area
BOF/DESULF
 Machine Id
D Desulph Skimmer East
 Component
Hydraulic System
 Fluid
FORSYTHE NO FIRE WG 200R (130 GAL)

DIAGNOSIS

Recommendation
 We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

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 pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration 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	WC0850085	WC0838946	WC0832565
Sample Date	Client Info	16 Aug 2023	13 Jul 2023	20 Jun 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	SEVERE	ABNORMAL

CORROSION INHIBITORS

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

CORROSION

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>20	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	1
Copper	ppm	ASTM D5185(m)	>20	<1	1	0
Lead	ppm	ASTM D5185(m)	>20	<1	0	1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Zinc	ppm	ASTM D5185(m)		0	0	2

CONTAMINANTS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	▲ 8421	54615	▲ 19664
Particles >6µm	ASTM D7647	>1300	▲ 1997	10152	▲ 2513
Particles >14µm	ASTM D7647	>160	83	1336	76
Particles >21µm	ASTM D7647	>40	25	472	17
Particles >38µm	ASTM D7647	>10	8	26	6
Particles >71µm	ASTM D7647	>3	4	1	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/14	23/21/18	▲ 21/19/13

CARRIER SALTS

method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D5185(m)	173	1	220
Potassium	ppm	ASTM D5185(m)	0	0	17

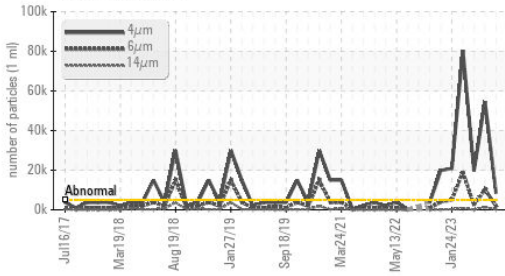
SCALE POTENTIAL

method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D5185(m)	2	<1	0
Magnesium	ppm	ASTM D5185(m)	<1	<1	<1



COOLANT REPORT

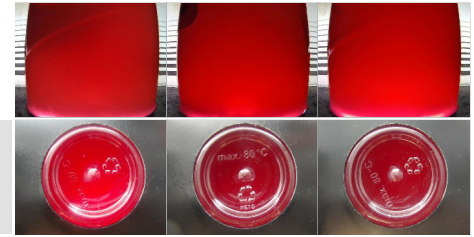
Particle Trend



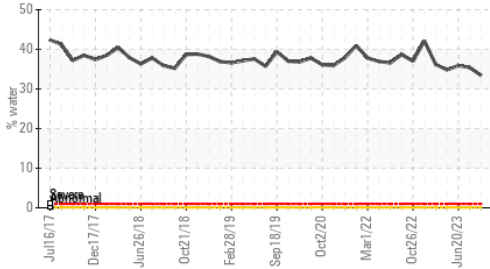
VISUAL

Color

Bottom

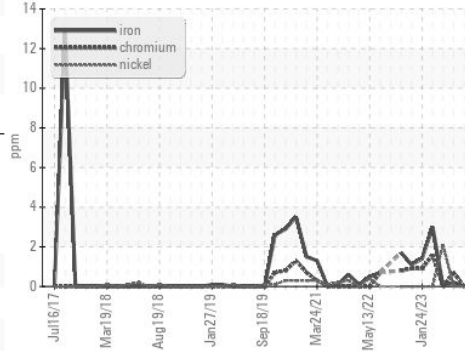


Water

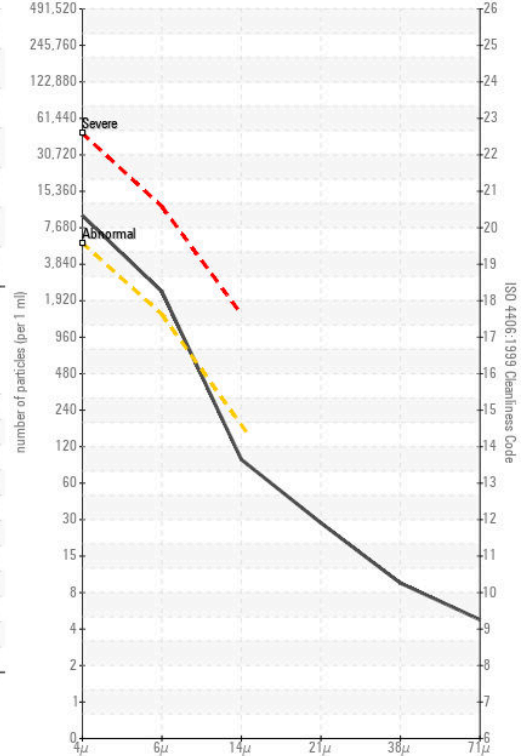


GRAPHS

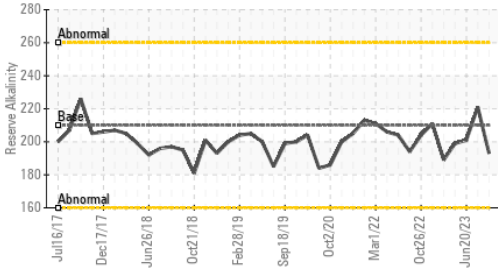
Ferrous Alloys



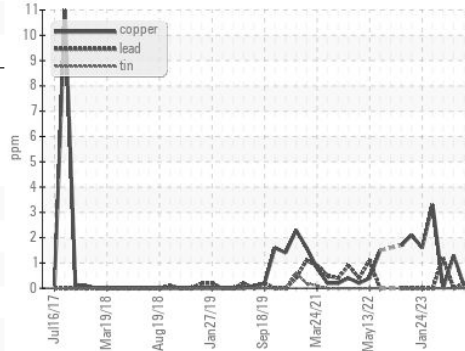
Particle Count



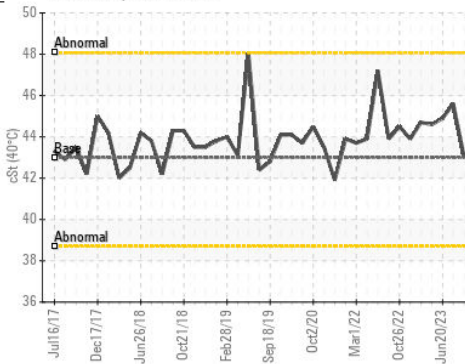
Reserve Alkalinity



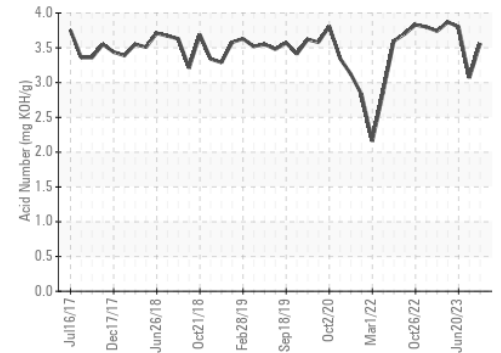
Non-ferrous Metals



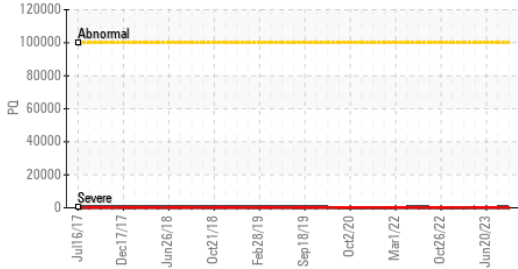
Viscosity @ 40°C



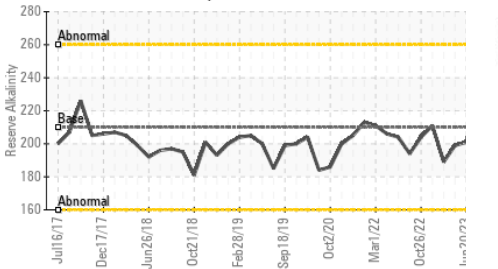
Acid Number



PQ



Reserve Alkalinity



ISO 17025:2017
Accredited
Laboratory

Laboratory Sample No. : WC0850085

Lab Number : 02576291

Unique Number : 5629351

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

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

: 2330 Regional Road #3, Door: BOSC8

Received : 16 Aug 2023

Diagnosed : 21 Aug 2023

Diagnostician : Kevin Marson

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.