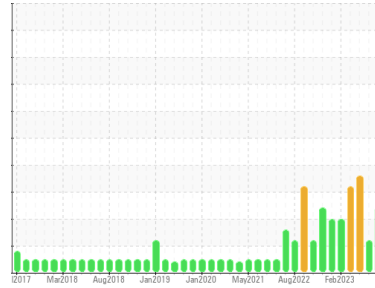




PROBLEM SUMMARY

Sample Rating Trend

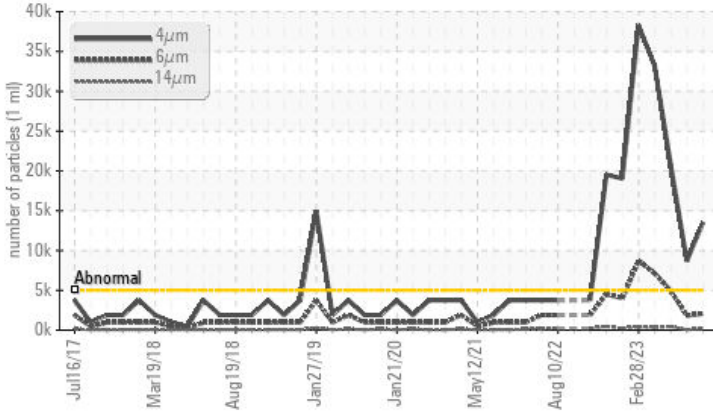
ISO



Area
BOF/DESULF
Machine Id
D Desulph Skimmer West
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. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Particles >4µm	ASTM D7647	>5000	▲ 13520	▲ 8709	▲ 20736
Particles >6µm	ASTM D7647	>1300	▲ 2091	▲ 1831	▲ 4917
Particles >14µm	ASTM D7647	>160	▲ 197	49	▲ 448
Particles >21µm	ASTM D7647	>40	▲ 79	21	▲ 149
Particles >38µm	ASTM D7647	>10	▲ 19	2	12
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/18/15	▲ 20/18/13	▲ 22/19/16

Customer Id: LEWBOSC
Sample No.: WC0871203
Lab Number: 02589799
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.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

16 Aug 2023 Diag: Kevin Marson

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 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 condition of the oil is suitable for further service.

view report



20 Jun 2023 Diag: Kevin Marson

COOL CHEMICALS



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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.

view report



30 May 2023 Diag: Kevin Marson

VISUAL METAL



We advise that you check for visible metal particles in the oil. We advise that you add water to increase the water concentration level to 41%. Ensure that only distilled water or boiler feed water condensate are used for make-up. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Light concentration of visible metal present. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water concentration level is lower than acceptable for this fluid. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

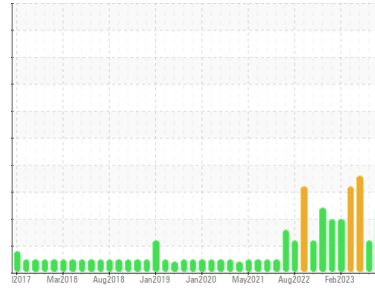
view report





COOLANT REPORT

Sample Rating Trend



ISO



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

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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 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		WC0871203	WC0850086	WC0832567
Sample Date	Client Info		16 Oct 2023	16 Aug 2023	20 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			ABNORMAL	ATTENTION	ABNORMAL

CORROSION INHIBITORS

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

CORROSION

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

CONTAMINANTS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 13520	▲ 8709	▲ 20736
Particles >6µm	ASTM D7647	>1300	▲ 2091	▲ 1831	▲ 4917
Particles >14µm	ASTM D7647	>160	▲ 197	49	▲ 448
Particles >21µm	ASTM D7647	>40	▲ 79	21	▲ 149
Particles >38µm	ASTM D7647	>10	▲ 19	2	12
Particles >71µm	ASTM D7647	>3	4	0	2
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/18/15	▲ 20/18/13	▲ 22/19/16

CARRIER SALTS

	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)	154	170	188
Potassium	ppm	ASTM D5185(m)	13	5	▲ 2

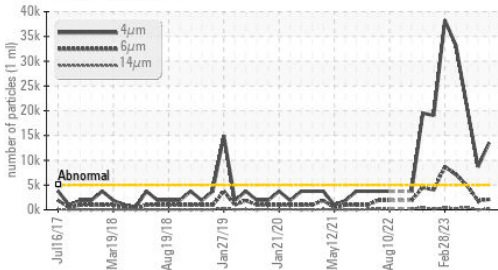
SCALE POTENTIAL

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



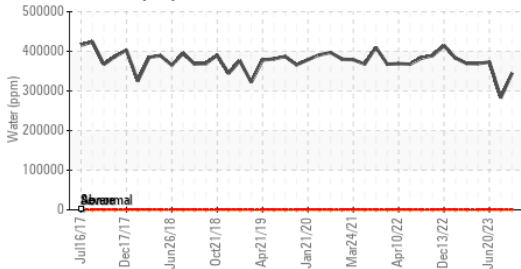
COOLANT REPORT

Particle Trend



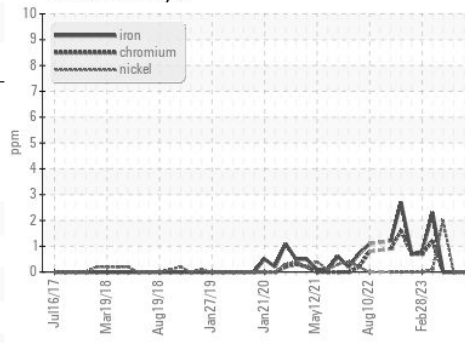
VISUAL	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter			no image	no image	no image

Water (KF)

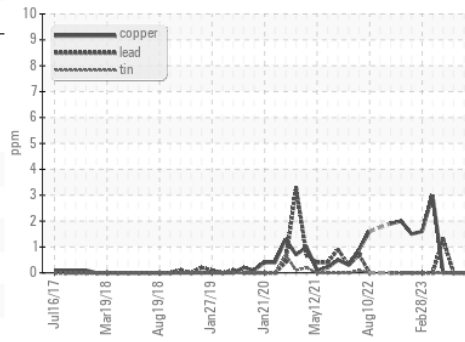


GRAPHS

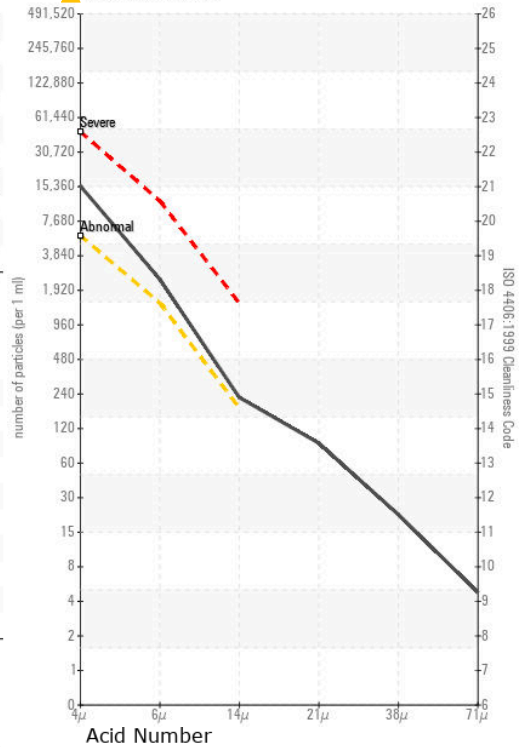
Ferrous Alloys



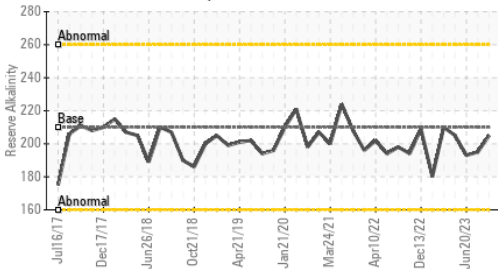
Non-ferrous Metals



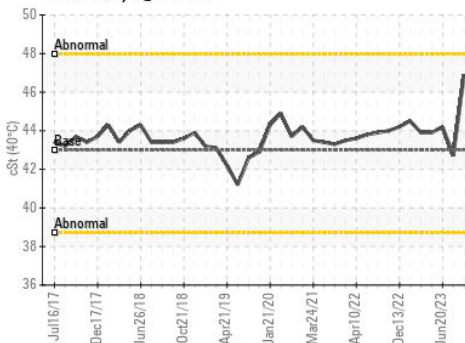
Particle Count



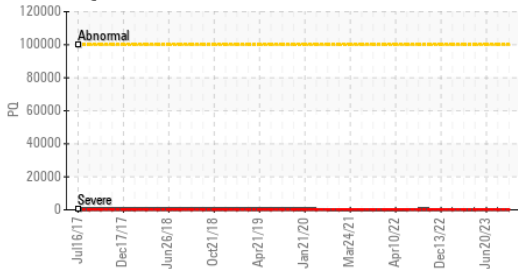
Reserve Alkalinity



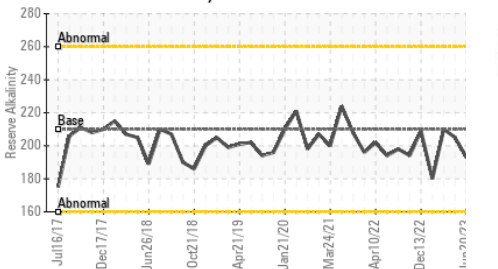
Viscosity @ 40°C



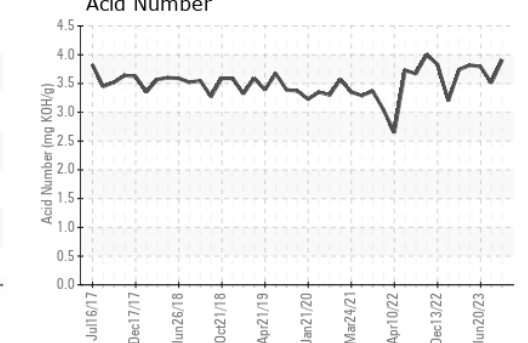
PQ



Reserve Alkalinity



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No. : WC0871203 **Received** : 17 Oct 2023 2330 Regional Road #3, Door: BOSC8
Lab Number : 02589799 **Diagnosed** : 19 Oct 2023 NANTICOKE, ON
Unique Number : 5658865 **Diagnostician** : Kevin Marson CA N0A 1L0
Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk, TAN Man)

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: Tom Walden
 Thomas.Walden@stelco.com
 T: (519)587-4541
 F: (519)587-7702