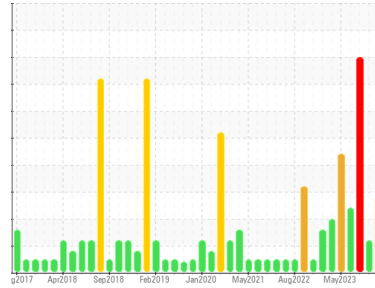




PROBLEM SUMMARY

Sample Rating Trend



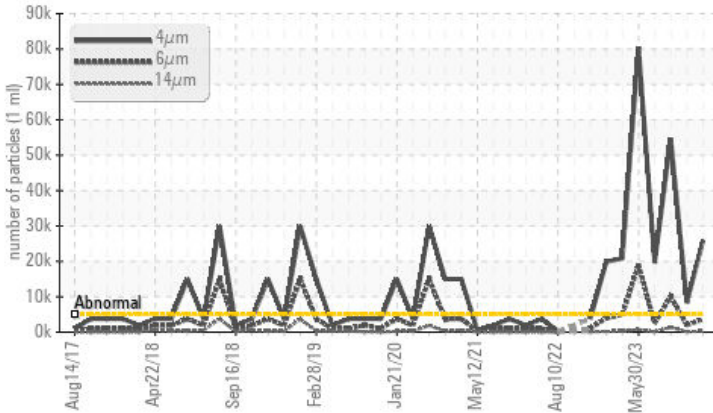
ISO



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 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.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	SEVERE
Particles >4µm	ASTM D7647	>5000	▲ 25920	▲ 8421	● 54615
Particles >6µm	ASTM D7647	>1300	▲ 3635	▲ 1997	● 10152
Particles >14µm	ASTM D7647	>160	▲ 271	83	● 1336
Particles >21µm	ASTM D7647	>40	▲ 119	25	● 472
Particles >38µm	ASTM D7647	>10	▲ 19	8	▲ 26
Particles >71µm	ASTM D7647	>3	▲ 6	4	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/15	▲ 20/18/14	● 23/21/18

Customer Id: LEWBOSC
Sample No.: WC0871217
Lab Number: 02589790
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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

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



13 Jul 2023 Diag: Kevin Marson

ISO



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.

view report



20 Jun 2023 Diag: Kevin Marson

WEAR



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.

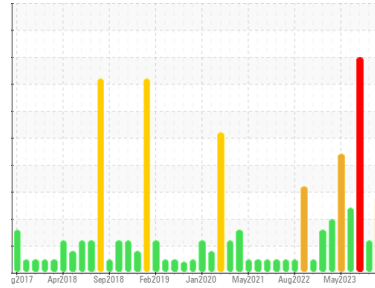
view report





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 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.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 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	WC0871217	WC0850085	WC0838946
Sample Date	Client Info	16 Oct 2023	16 Aug 2023	13 Jul 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		ABNORMAL	ATTENTION	SEVERE

CORROSION INHIBITORS

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

CORROSION

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

CONTAMINANTS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	▲ 25920	▲ 8421	● 54615
Particles >6µm	ASTM D7647	>1300	▲ 3635	▲ 1997	● 10152
Particles >14µm	ASTM D7647	>160	▲ 271	83	● 1336
Particles >21µm	ASTM D7647	>40	▲ 119	25	● 472
Particles >38µm	ASTM D7647	>10	▲ 19	8	▲ 26
Particles >71µm	ASTM D7647	>3	▲ 6	4	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/15	▲ 20/18/14	● 23/21/18

CARRIER SALTS

method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D5185(m)	164	173	1
Potassium	ppm	ASTM D5185(m)	20	0	0

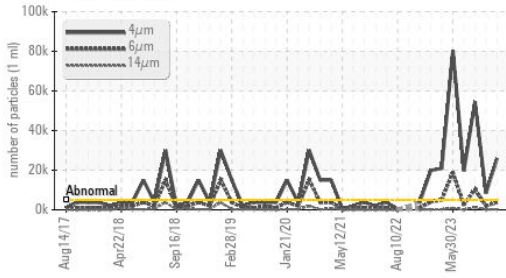
SCALE POTENTIAL

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



COOLANT REPORT

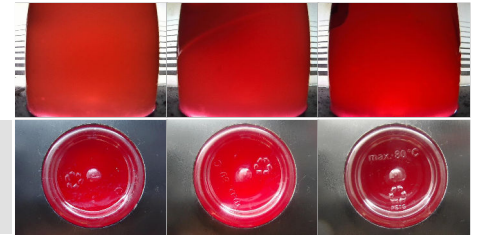
Particle Trend



VISUAL

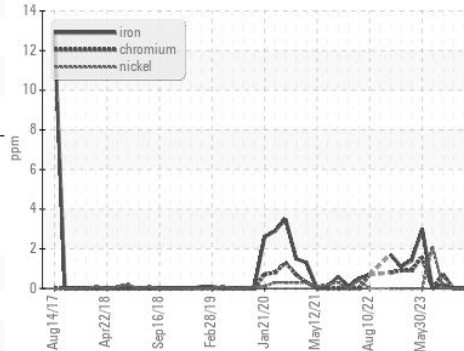
Color

Bottom

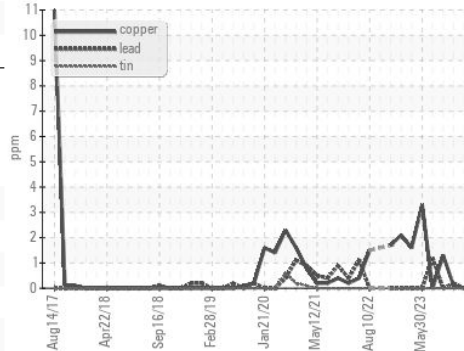


GRAPHS

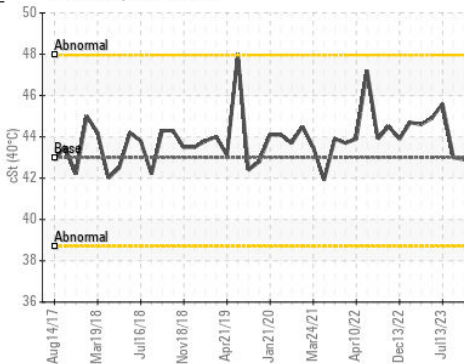
Ferrous Alloys



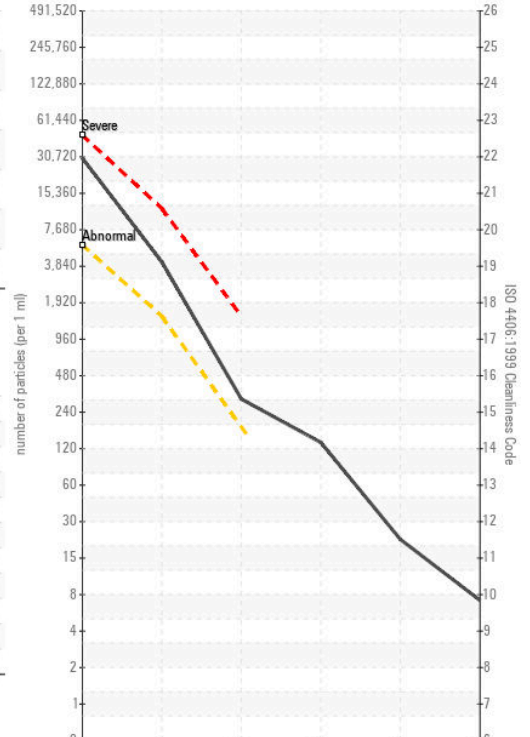
Non-ferrous Metals



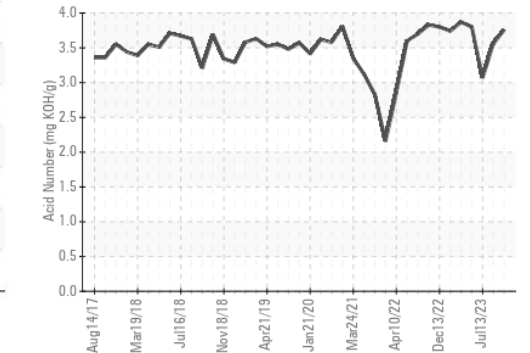
Viscosity @ 40°C



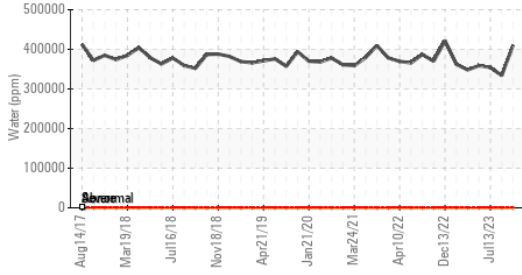
Particle Count



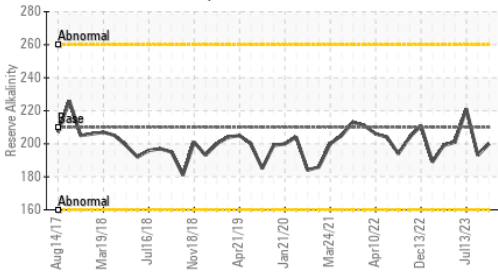
Acid Number



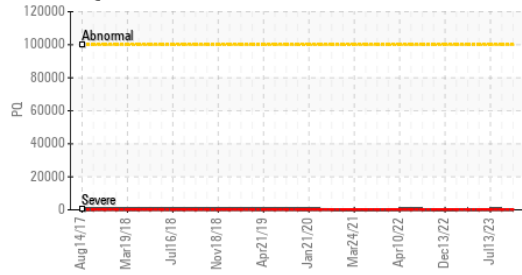
Water (KF)



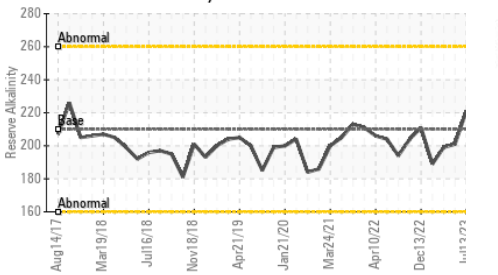
Reserve Alkalinity



PQ



Reserve Alkalinity



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No. : WC0871217 **Received** : 17 Oct 2023 2330 Regional Road #3, Door: BOSC8
Lab Number : 02589790 **Diagnosed** : 19 Oct 2023 NANTICOKE, ON
Unique Number : 5658856 **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
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