

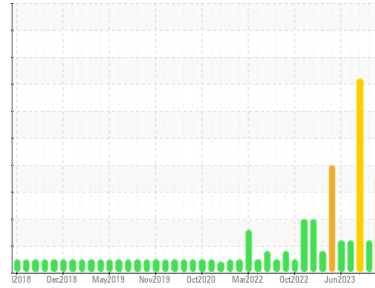


PROBLEM SUMMARY

Sample Rating Trend

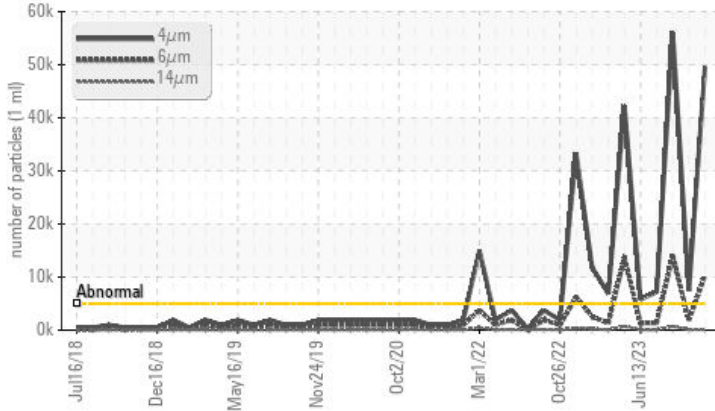
ISO

Area
BOF/OG SYSTEM
 Machine Id
D - 8 Skirt Lifting and Seal Jacking Hydraulics
 Component
Hydraulic System
 Fluid
FORSYTHE NO FIRE WG 200R (350 GAL)



COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	ATTENTION	SEVERE
Particles >4µm	ASTM D7647	>5000	● 49567	▲ 7468	● 56036
Particles >6µm	ASTM D7647	>1300	● 10231	▲ 1831	● 14009
Oil Cleanliness	ISO 4406 (c)	>19/17/14	● 23/21/14	▲ 20/18/14	● 23/21/17

Customer Id: LEWBOSC
 Sample No.: WC0850090
 Lab Number: 02576293
 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	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	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.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

13 Jul 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

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. 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



14 Jun 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





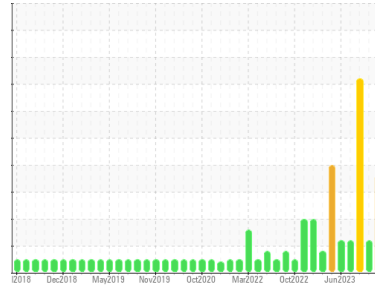
COOLANT REPORT

Sample Rating Trend

ISO



Area
BOF/OG SYSTEM
 Machine Id
D - 8 Skirt Lifting and Seal Jacking Hydraulics
 Component
Hydraulic System
 Fluid
FORSYTHE NO FIRE WG 200R (350 GAL)



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high 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		WC0850090	WC0838948	WC0832571
Sample Date	Client Info		16 Aug 2023	13 Jul 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			SEVERE	ATTENTION	SEVERE

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	0	<1	0
Phosphorus	ppm	ASTM D5185(m)	0	0	<1
Boron	ppm	ASTM D5185(m)	0	1	0
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 0	0	<1
Tin	ppm	ASTM D5185(m)	>20 <1	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Zinc	ppm	ASTM D5185(m)	0	0	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	49567	7468	56036
Particles >6µm	ASTM D7647	>1300	10231	1831	14009
Particles >14µm	ASTM D7647	>160	93	103	710
Particles >21µm	ASTM D7647	>40	11	21	189
Particles >38µm	ASTM D7647	>10	2	1	14
Particles >71µm	ASTM D7647	>3	0	1	2
Oil Cleanliness	ISO 4406 (c)	>19/17/14	23/21/14	20/18/14	23/21/17

CARRIER SALTS

	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)	106	23	147
Potassium	ppm	ASTM D5185(m)	0	0	0

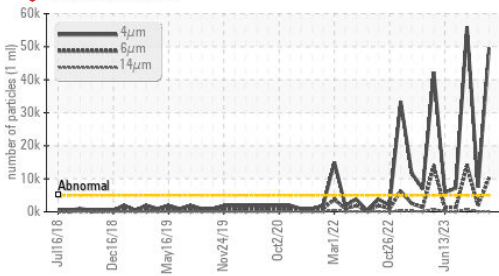
SCALE POTENTIAL

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



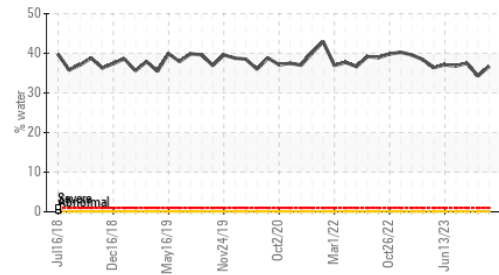
COOLANT REPORT

Particle Trend



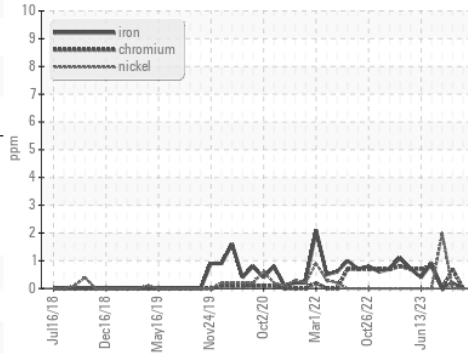
VISUAL	method	limit/base	current	history1	history2
Color					
Bottom					

Water

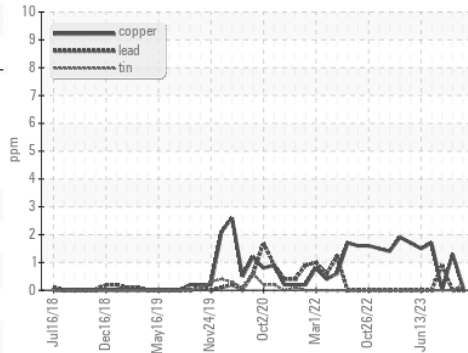


GRAPHS

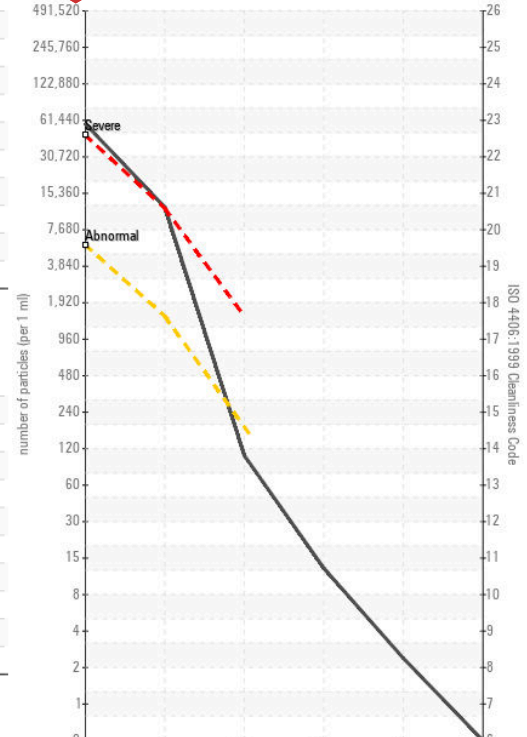
Ferrous Alloys



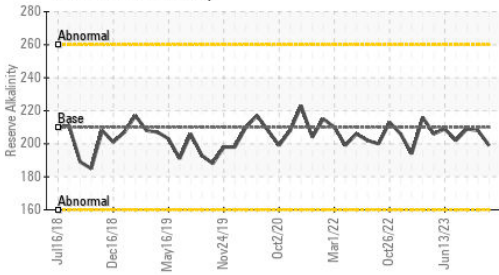
Non-ferrous Metals



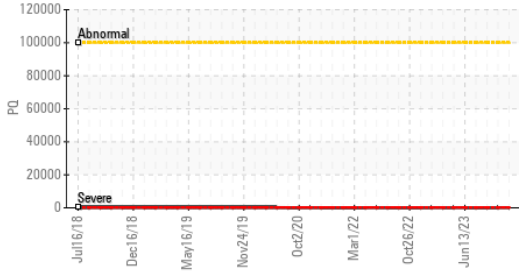
Particle Count



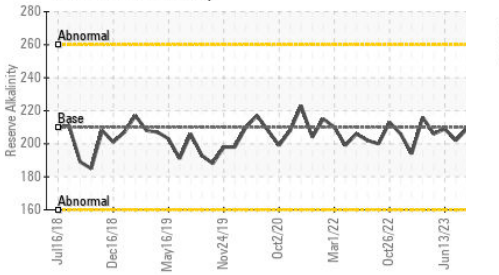
Reserve Alkalinity



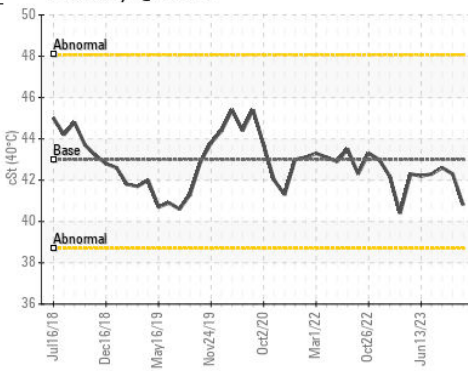
PQ



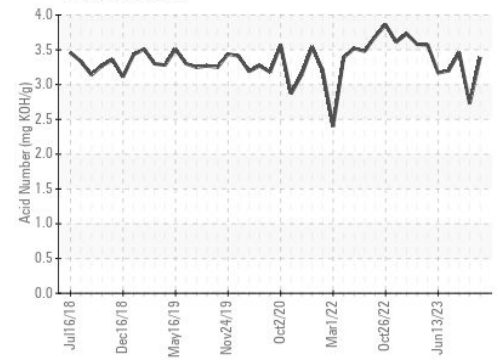
Reserve Alkalinity



Viscosity @ 40°C



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No. : WC0850090 **Received** : 16 Aug 2023 **2330 Regional Road #3, Door: BOSC8**
Lab Number : 02576293 **Diagnosed** : 21 Aug 2023 **NANTICOKE, ON**
Unique Number : 5629353 **Diagnostician** : Kevin Marson **CA N0A 1L0**
Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk, TAN Man) **Contact: Tom Walden**

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.

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