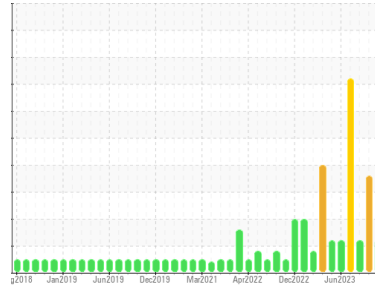




# PROBLEM SUMMARY

Sample Rating Trend



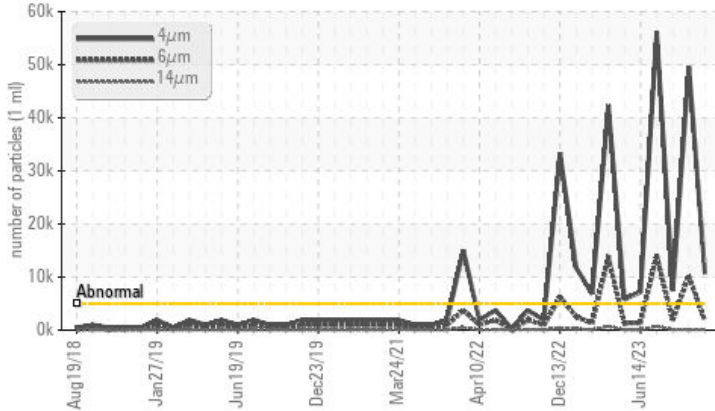
ISO



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

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

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	SEVERE	ATTENTION
Particles >4µm	ASTM D7647	>5000	▲ <b>10674</b>	● 49567	▲ 7468
Particles >6µm	ASTM D7647	>1300	▲ <b>1749</b>	● 10231	▲ 1831
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>21/18/14</b>	● 23/21/14	▲ 20/18/14

Customer Id: LEWBOSC  
 Sample No.: WC0871213  
 Lab Number: 02589793  
 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](mailto:Kevin.Marson@wearcheck.com)

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

ISO



### 16 Aug 2023 Diag: Kevin Marson

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. All component wear rates are normal. There is a high 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report



ISO



### 13 Jul 2023 Diag: Kevin Marson

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



ISO



### 20 Jun 2023 Diag: Kevin Marson

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.

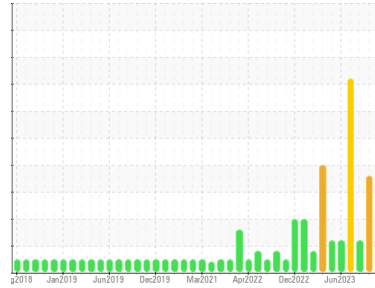
view report





# 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

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	<b>WC0871213</b>	WC0850090	WC0838948
Sample Date	Client Info	<b>16 Oct 2023</b>	16 Aug 2023	13 Jul 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	SEVERE	ATTENTION

## CORROSION INHIBITORS

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

## CORROSION

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

## CONTAMINANTS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	▲ <b>10674</b>	● 49567	▲ 7468
Particles >6µm	ASTM D7647	>1300	▲ <b>1749</b>	● 10231	▲ 1831
Particles >14µm	ASTM D7647	>160	<b>117</b>	93	103
Particles >21µm	ASTM D7647	>40	<b>51</b>	11	21
Particles >38µm	ASTM D7647	>10	<b>9</b>	2	1
Particles >71µm	ASTM D7647	>3	<b>4</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>21/18/14</b>	● 23/21/14	▲ 20/18/14

## CARRIER SALTS

method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D5185(m)	<b>136</b>	106	23
Potassium	ppm	ASTM D5185(m)	<b>6</b>	0	0

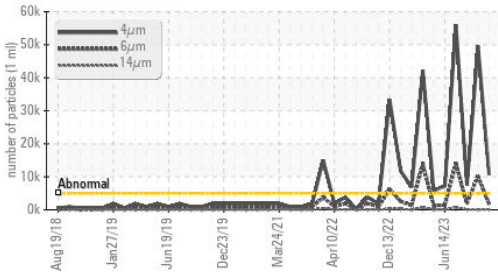
## SCALE POTENTIAL

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



# COOLANT REPORT

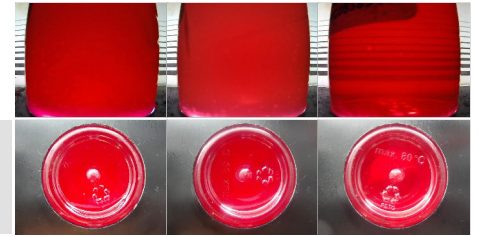
## Particle Trend



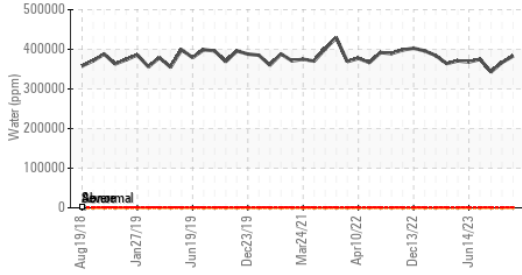
## VISUAL

Color

Bottom

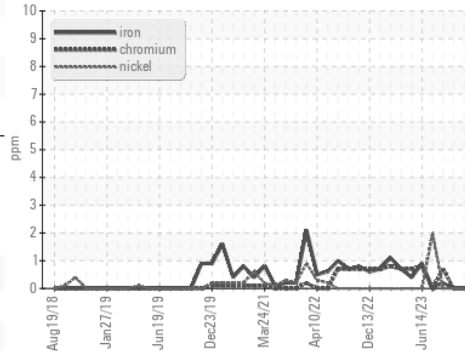


## Water (KF)

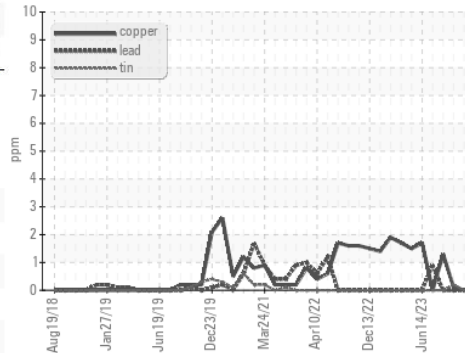


## GRAPHS

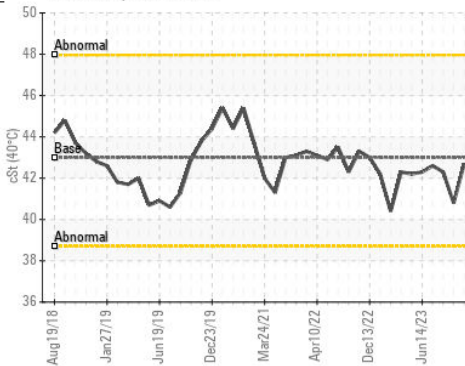
### Ferrous Alloys



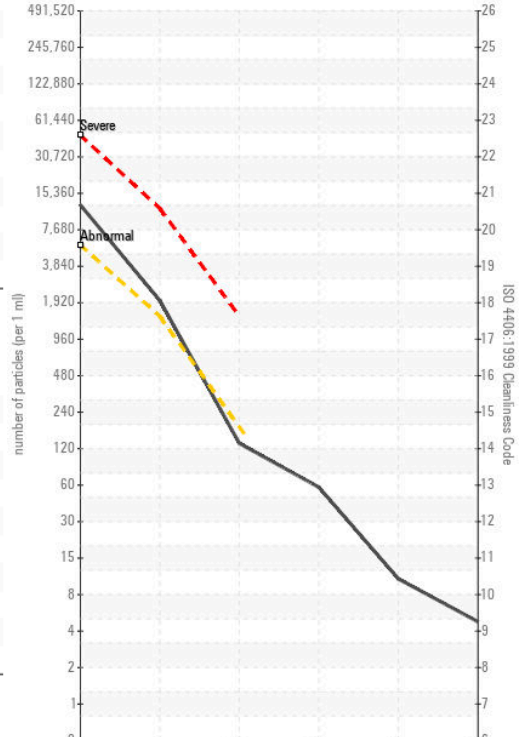
### Non-ferrous Metals



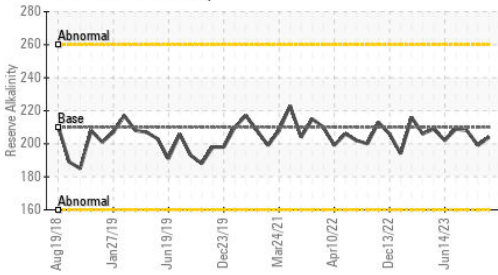
### Viscosity @ 40°C



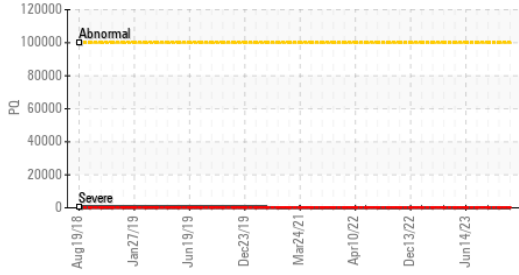
### Particle Count



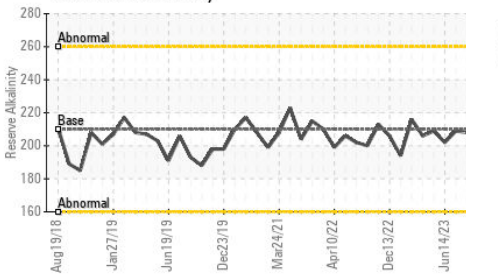
## Reserve Alkalinity



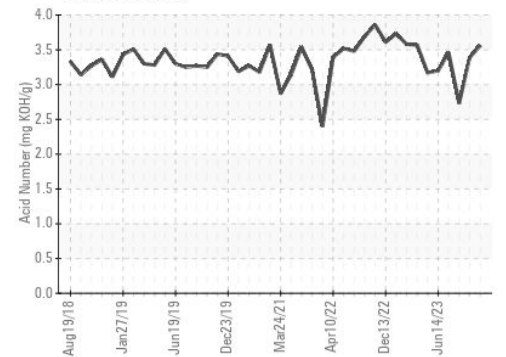
## PQ



## Reserve Alkalinity



### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0871213 **Received** : 17 Oct 2023 2330 Regional Road #3, Door: BOSC8  
**Lab Number** : 02589793 **Diagnosed** : 19 Oct 2023 NANTICOKE, ON  
**Unique Number** : 5658859 **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.

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