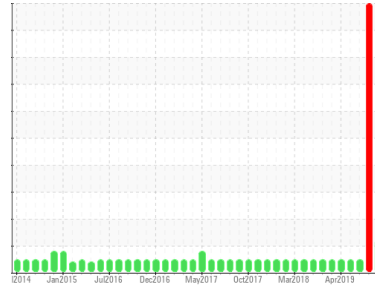




PROBLEM SUMMARY

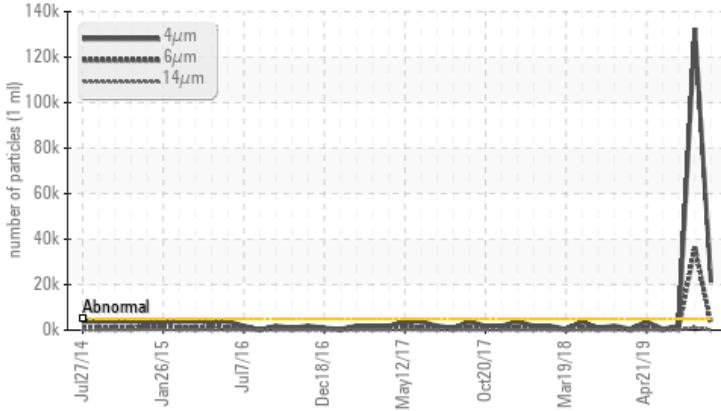
Sample Rating Trend



Area
Caster/Hydraulics
 Machine Id
H - Osc Test Hydraulic Unit
 Component
Hydraulic System
 Fluid
FORSYTHE NO FIRE WG 200R (180 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	SEVERE	NORMAL
Particles >4µm	ASTM D7647	>5000	▲ 21219	● 132497	1900
Particles >6µm	ASTM D7647	>1300	▲ 2917	● 36472	970
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/14	● 24/22/17	18/17/13

Customer Id: LEWBOSC
 Sample No.: WC0850102
 Lab Number: 02576296
 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

13 Jul 2023 Diag: Kevin Marson

ISO



Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit. Copper and iron ppm levels are abnormal. Cylinder or oil pump wear indicated. Oil cooler core leaching or motor piston wear is indicated. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The water concentration level is lower than acceptable for this fluid. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid.

view report



26 Oct 2022 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. 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



09 Jul 2020 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. 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.

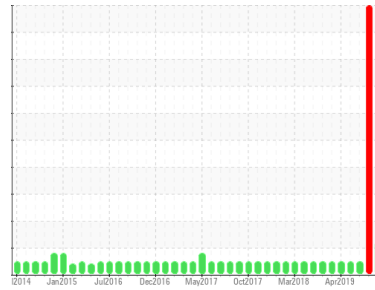
view report





COOLANT REPORT

Sample Rating Trend



ISO



Area
Caster/Hydraulics
 Machine Id
H - Osc Test Hydraulic Unit
 Component
Hydraulic System
 Fluid
FORSYTHE NO FIRE WG 200R (180 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	WC0850102	WC0838956	WC0756742
Sample Date	Client Info	16 Aug 2023	13 Jul 2023	26 Oct 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	SEVERE	NORMAL

CORROSION INHIBITORS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	0	2	2
Phosphorus	ppm	ASTM D5185(m)	0	▲ 330	2
Boron	ppm	ASTM D5185(m)	0	11	<1
Molybdenum	ppm	ASTM D5185(m)	0	<1	<1

CORROSION

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>20	0	▲ 28	<1
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	<1
Copper	ppm	ASTM D5185(m)	>20	<1	▲ 22	2
Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Tin	ppm	ASTM D5185(m)	>20	0	4	0
Silver	ppm	ASTM D5185(m)		0	0	0
Zinc	ppm	ASTM D5185(m)		0	▲ 20	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	▲ 21219	● 132497	1900
Particles >6µm	ASTM D7647	>1300	▲ 2917	● 36472	970
Particles >14µm	ASTM D7647	>160	93	▲ 1089	60
Particles >21µm	ASTM D7647	>40	27	▲ 224	7
Particles >38µm	ASTM D7647	>10	0	4	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/14	● 24/22/17	18/17/13

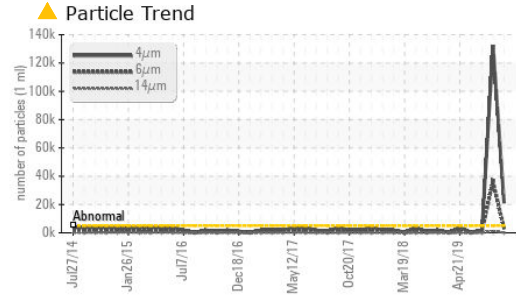
CARRIER SALTS

method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D5185(m)	113	<1	242
Potassium	ppm	ASTM D5185(m)	0	<1	27

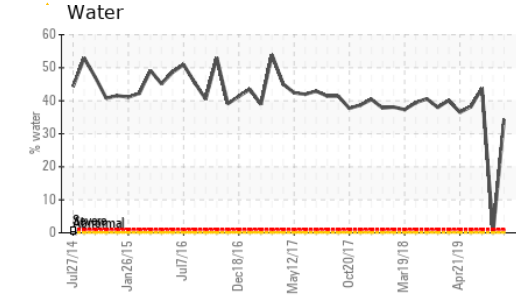
SCALE POTENTIAL

method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D5185(m)	2	7	1
Magnesium	ppm	ASTM D5185(m)	0	1	<1

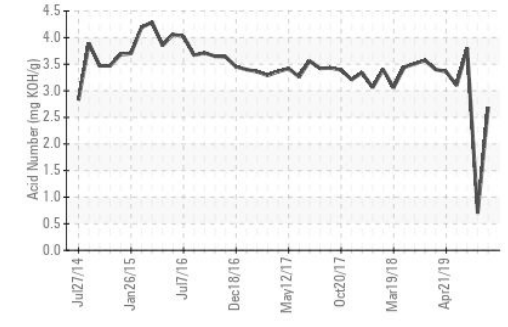
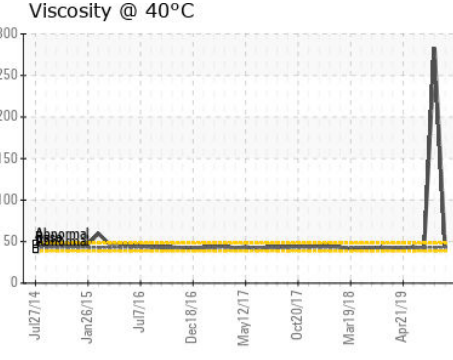
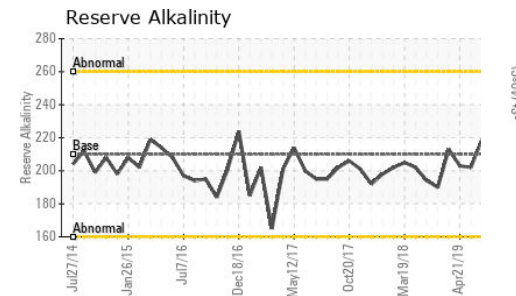
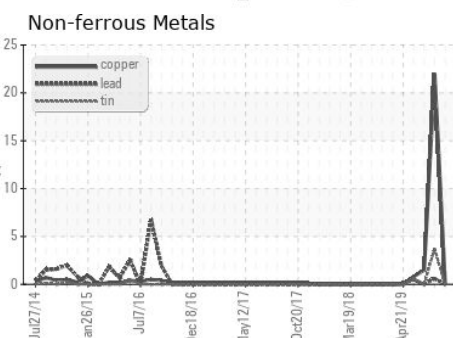
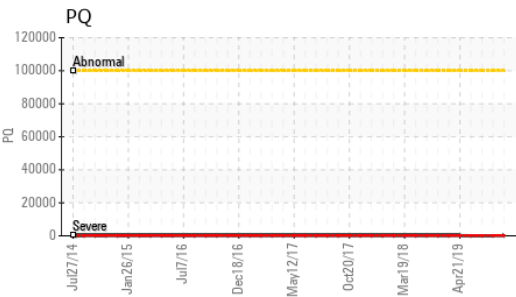
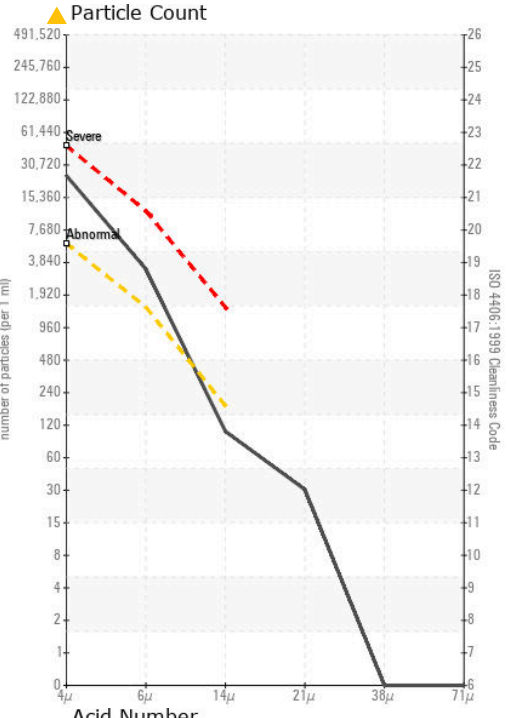
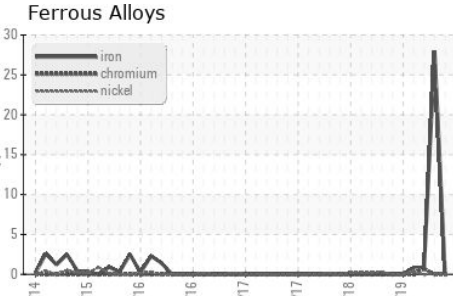
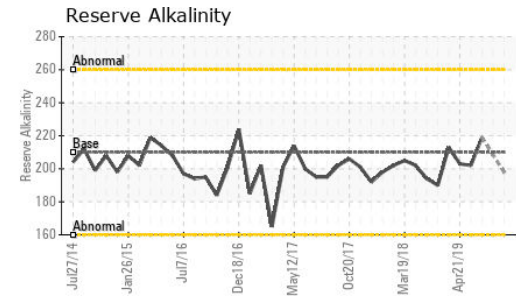
COOLANT REPORT



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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No. : WC0850102 **Received** : 16 Aug 2023 2330 Regional Road #3, Door: BOSC8
Lab Number : 02576296 **Diagnosed** : 21 Aug 2023 NANTICOKE, ON
Unique Number : 5629356 **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