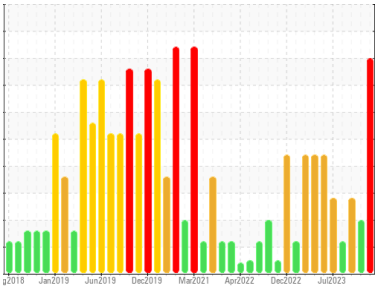
PROBLEM SUMMARY

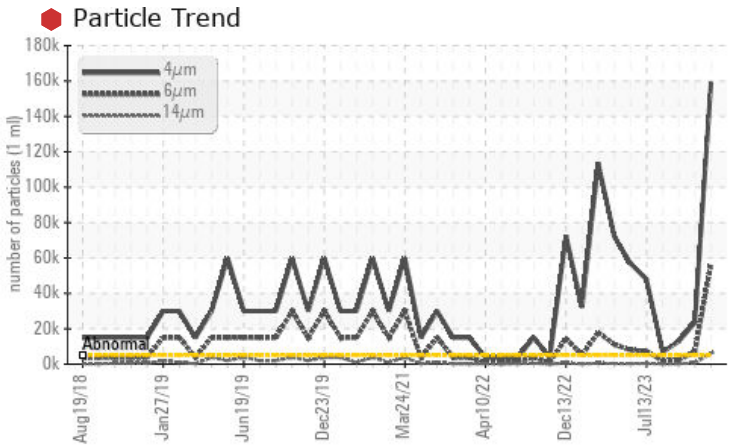
Sample Rating Trend



ISO

Area
RHOB/HYDRAULICS
Machine Id
E - 1 Hydraulics Repair Car
Component
Tank Hydraulic System
Fluid
AMERICAN CHEMICAL TECH. FR WG 200-D (132 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>5000	**159095**	23481	12930
Particles >6µm		ASTM D7647	>1300	**56467**	6824	2389
Particles >14µm		ASTM D7647	>160	**6125**	553	241
Particles >21µm		ASTM D7647	>40	**1680**	71	111
Particles >38µm		ASTM D7647	>10	**46**	8	19
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**24/23/20**	22/20/16	21/18/15

Customer Id: LEWBOSC
Sample No.: WC0901983
Lab Number: 02610766
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1 (289)291-4641 x4641
Bill.Quesnel@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	---	---	?	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 Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.
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

ISO

15 Dec 2023 Diag: Kevin Marson

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate 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

16 Oct 2023 Diag: Kevin Marson

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.All component wear rates are normal. There is a moderate 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

ISO

16 Aug 2023 Diag: Kevin Marson

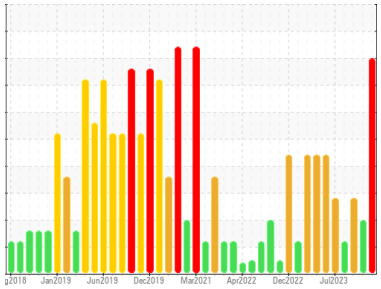
We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The pH level of this fluid is 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

COOLANT REPORT

Area
RHOB/HYDRAULICS
Machine Id
E - 1 Hydraulics Repair Car
Component
Tank Hydraulic System
Fluid
AMERICAN CHEMICAL TECH. FR WG 200-D (132 GAL)

Sample Rating Trend



ISO

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a high 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		**WC0901983**	WC0890378	WC0871206
Sample Date		Client Info		**22 Jan 2024**	15 Dec 2023	16 Oct 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**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>55	**NEG**	NEG	NEG

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

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

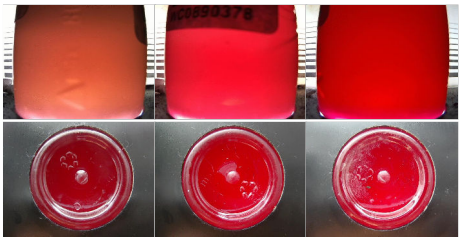
CONTAMINANTS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**159095**	23481	12930
Particles >6µm		ASTM D7647	>1300	**56467**	6824	2389
Particles >14µm		ASTM D7647	>160	**6125**	553	241
Particles >21µm		ASTM D7647	>40	**1680**	71	111
Particles >38µm		ASTM D7647	>10	**46**	8	19
Particles >71µm		ASTM D7647	>3	**2**	0	10
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**24/23/20**	22/20/16	21/18/15

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**195**	192	160
Potassium	ppm	ASTM D5185(m)		**20**	11	14

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

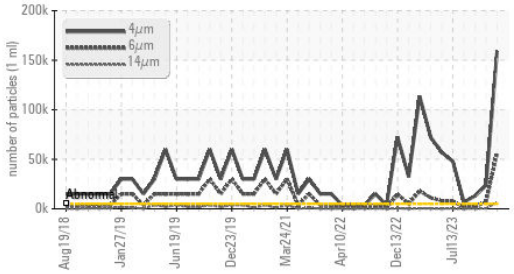
COOLANT REPORT

VISUAL	method	limit/base	current	history1	history2
Color					
Bottom					

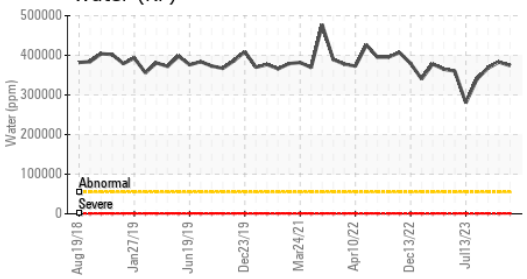


GRAPHS

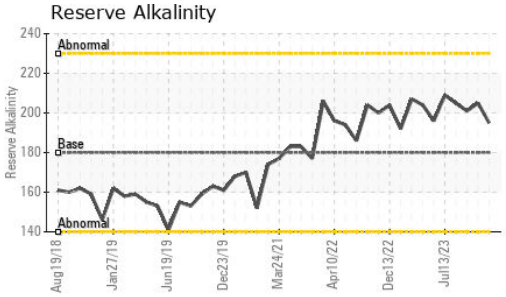
Particle Trend



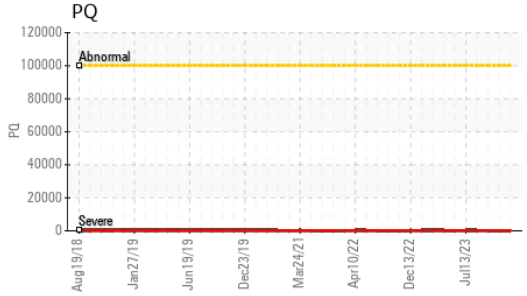
Water (KF)



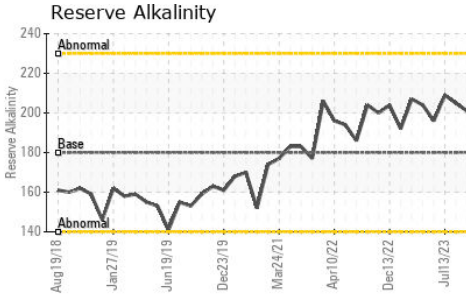
Reserve Alkalinity



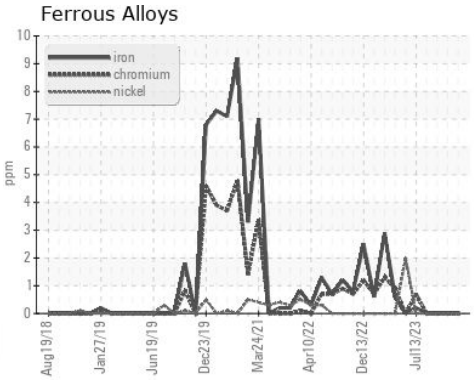
PQ



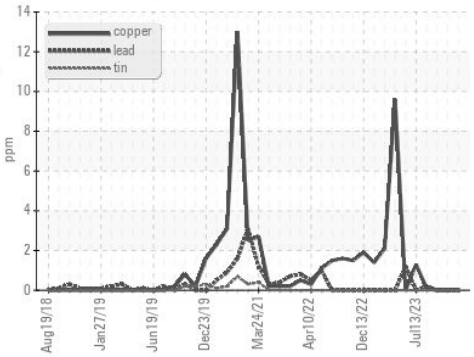
Reserve Alkalinity



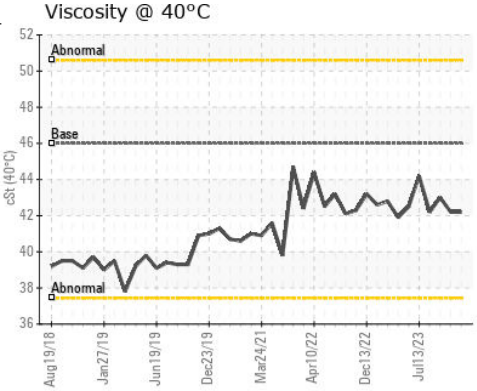
Ferrous Alloys



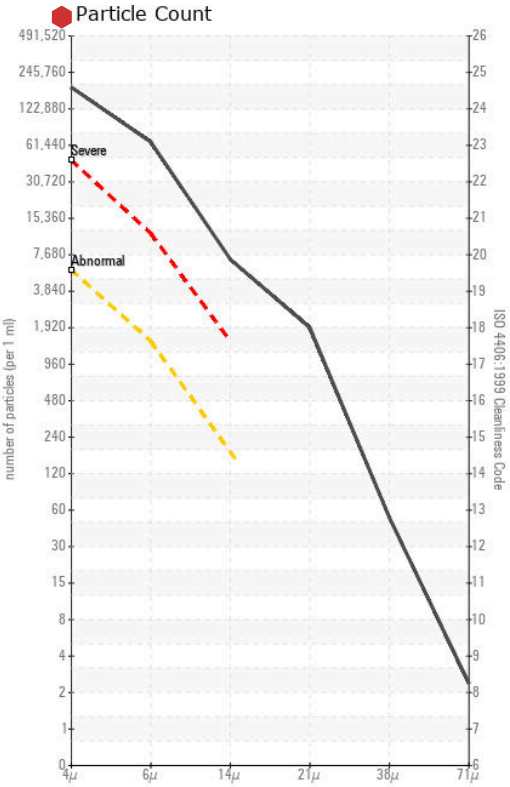
Non-ferrous Metals



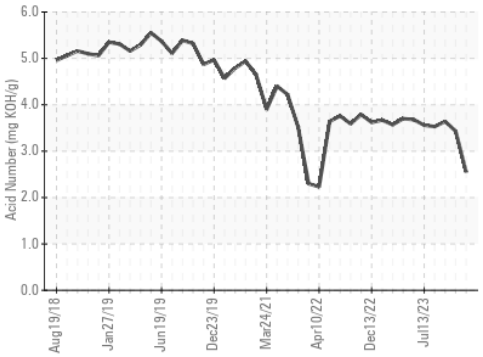
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9			**STELCO - BOSC - Basic Oxygen Slab Caster**
Sample No.	: WC0901983	**Recieved**	: 23 Jan 2024	2330 Regional Road #3, Door: BOSC8
Lab Number	: 02610766	**Diagnosed**	: 29 Jan 2024	NANTICOKE, ON
Unique Number	: 5711852	**Diagnostician**	: Bill Quesnel	CA N0A 1L0
Test Package	: IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk)			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.

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F: (519)587-7702