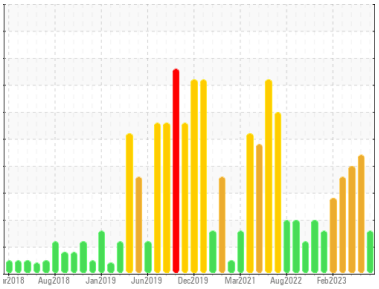
PROBLEM SUMMARY

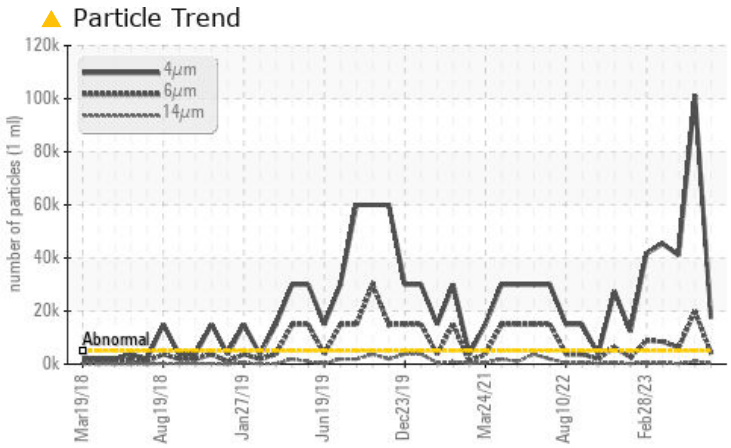
Sample Rating Trend



ISO

Area
RHOB/HYDRAULICS
Machine Id
E - 2 Hydraulics Repair Car
Component
Tank Hydraulic System
Fluid
FIRE-RESISTANT FLUID ISO 46 (132 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	SEVERE
Particles >4µm		ASTM D7647	>5000	**17365**	101265	40944
Particles >6µm		ASTM D7647	>1300	**4201**	20011	6241
Particles >14µm		ASTM D7647	>160	**245**	1043	234
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**21/19/15**	24/22/17	23/20/15

Customer Id: LEWBOSC
Sample No.: WC0850109
Lab Number: 02576289
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.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.

HISTORICAL DIAGNOSIS

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. Please specify the brand, type, and viscosity of the oil on your next sample.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

COOL CHEMICALS

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. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a high 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

31 May 2023 Diag: Kevin Marson

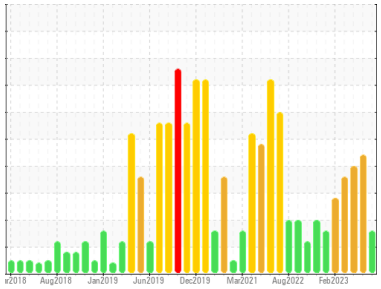
WEAR

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. Please specify the brand, type, and viscosity of the oil on your next sample.Copper ppm levels are abnormal. A sharp increase in the copper level is noted. 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 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

COOLANT REPORT

Sample Rating Trend



ISO

Area
RHOB/HYDRAULICS
Machine Id
E - 2 Hydraulics Repair Car
Component
Tank Hydraulic System
Fluid
FIRE-RESISTANT FLUID ISO 46 (132 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

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		**WC0850109**	WC0838977	WC0832564
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				**ABNORMAL**	SEVERE	SEVERE

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**0**	<1	0
Phosphorus	ppm	ASTM D5185(m)	175	**0**	0	0
Boron	ppm	ASTM D5185(m)	5	**0**	<1	2
Molybdenum	ppm	ASTM D5185(m)	5	**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	**<1**	0	1
Tin	ppm	ASTM D5185(m)	>20	**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	<1
Zinc	ppm	ASTM D5185(m)	>125	**0**	0	0

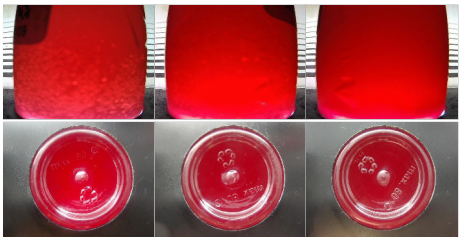
CONTAMINANTS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **17365**	⬢ 101265	⬢ 40944
Particles >6µm		ASTM D7647	>1300	▲ **4201**	⬢ 20011	▲ 6241
Particles >14µm		ASTM D7647	>160	▲ **245**	▲ 1043	▲ 234
Particles >21µm		ASTM D7647	>40	**49**	▲ 238	55
Particles >38µm		ASTM D7647	>10	**6**	7	2
Particles >71µm		ASTM D7647	>3	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/19/15**	⬢ 24/22/17	⬢ 23/20/15

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**163**	104	199
Potassium	ppm	ASTM D5185(m)		**0**	0	▲ 4

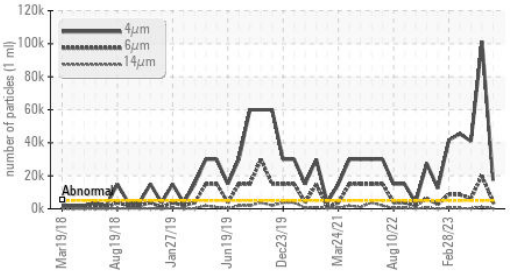
SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	**2**	<1	0
Magnesium	ppm	ASTM D5185(m)	>10	**0**	<1	<1

COOLANT REPORT

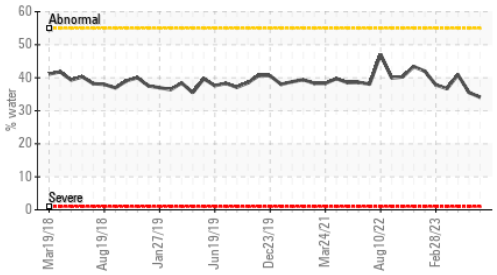
VISUAL	method	limit/base	current	history1	history2
Color					
Bottom					



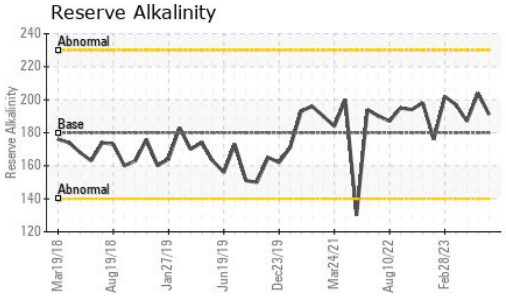
Particle Trend



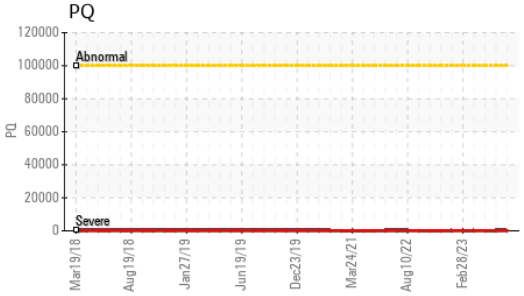
Water



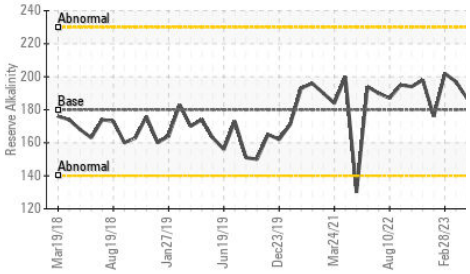
Reserve Alkalinity



PQ

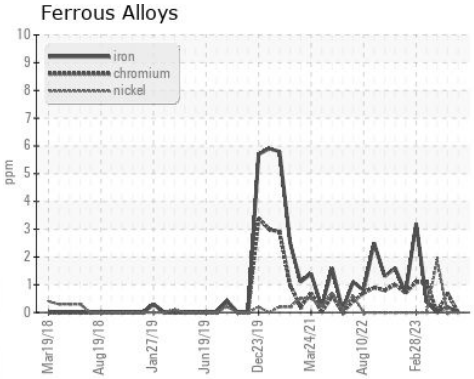


Reserve Alkalinity

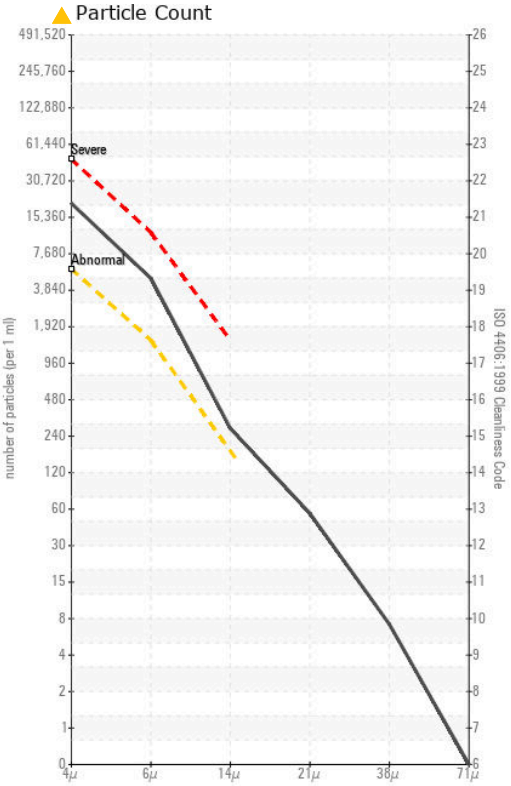


GRAPHS

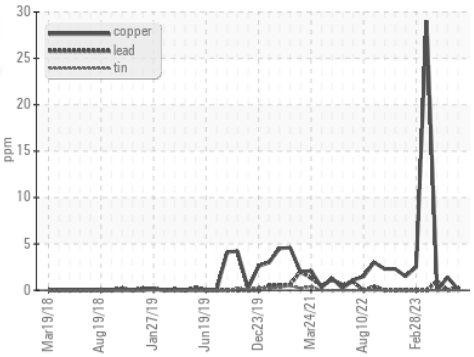
Ferrous Alloys



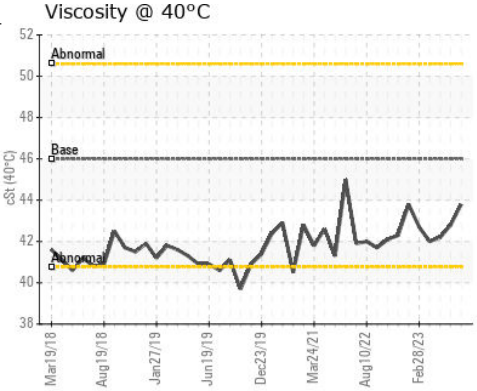
Particle Count



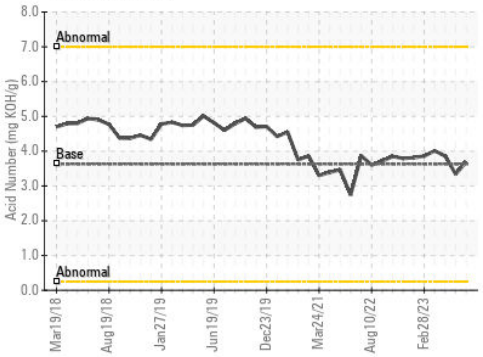
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0850109
Lab Number : 02576289
Unique Number : 5629349
Test Package : IND 2 (Additional Tests: KF, pH, PQ, ReserveAlk, TAN Man)

Received : 16 Aug 2023
Diagnosed : 21 Aug 2023
Diagnostician : Kevin Marson

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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