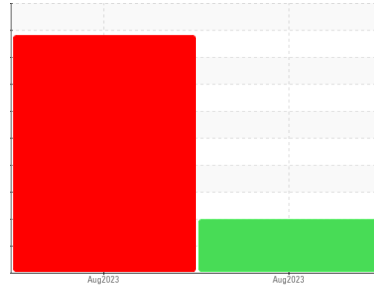




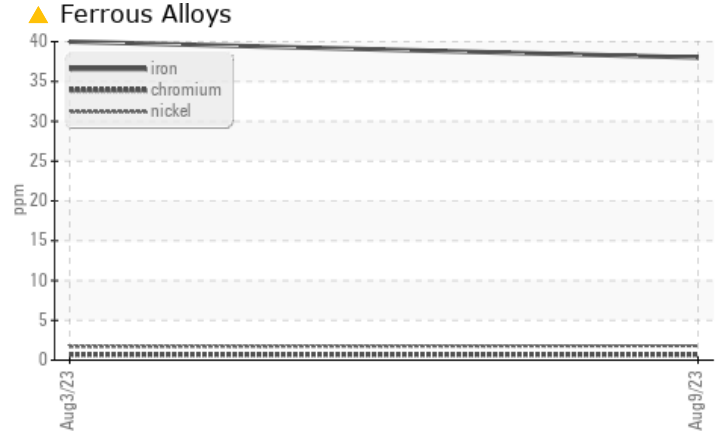
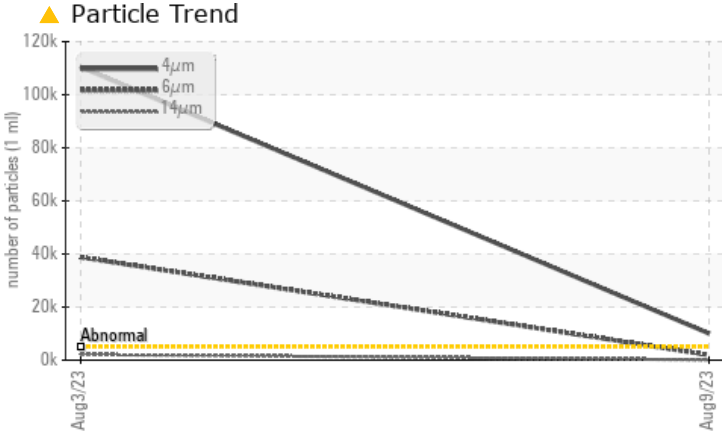
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
CHYD 01
 Component
Hydraulic System
 Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	SEVERE	---
Iron	ppm	ASTM D5185(m) >20	▲ 38	▲ 40	---
Particles >4µm		ASTM D7647 >5000	▲ 10053	● 110451	---
Particles >6µm		ASTM D7647 >1300	▲ 1926	● 38787	---
Oil Cleanliness		ISO 4406 (c) >19/17/14	▲ 21/18/14	● 24/22/18	---

Customer Id: GOONAP
 Sample No.: WC
 Lab Number: 02575157
 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.
Alert	---	---	?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

HISTORICAL DIAGNOSIS

03 Aug 2023 Diag: Kevin Marson

ISO



Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample. Please provide more complete information on your next sample. Iron ppm levels are marginal. All other component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

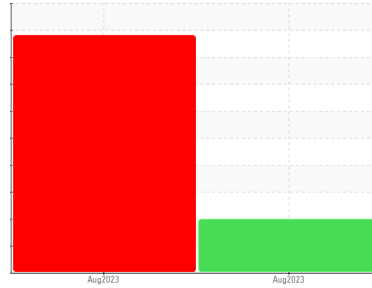
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
CHYD 01
 Component
Hydraulic System
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the component make and model with your next sample.

Wear

Iron ppm levels are marginal. All other 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 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	WC	WC	---
Sample Date	Client Info	09 Aug 2023	03 Aug 2023	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	SEVERE	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	---
Iron	ppm	ASTM D5185(m) >20	▲ 38	▲ 40
Chromium	ppm	ASTM D5185(m) >20	<1	<1
Nickel	ppm	ASTM D5185(m) >20	2	2
Titanium	ppm	ASTM D5185(m)	0	0
Silver	ppm	ASTM D5185(m)	<1	<1
Aluminum	ppm	ASTM D5185(m) >20	8	8
Lead	ppm	ASTM D5185(m) >20	18	17
Copper	ppm	ASTM D5185(m) >20	125	124
Tin	ppm	ASTM D5185(m) >20	<1	<1
Antimony	ppm	ASTM D5185(m)	0	0
Vanadium	ppm	ASTM D5185(m)	<1	<1
Beryllium	ppm	ASTM D5185(m)	0	0
Cadmium	ppm	ASTM D5185(m)	<1	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<1	<1
Barium	ppm	ASTM D5185(m)	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0
Manganese	ppm	ASTM D5185(m)	<1	<1
Magnesium	ppm	ASTM D5185(m)	18	19
Calcium	ppm	ASTM D5185(m)	58	55
Phosphorus	ppm	ASTM D5185(m)	725	746
Zinc	ppm	ASTM D5185(m)	544	551
Sulfur	ppm	ASTM D5185(m)	2205	2185
Lithium	ppm	ASTM D5185(m)	<1	<1

CONTAMINANTS

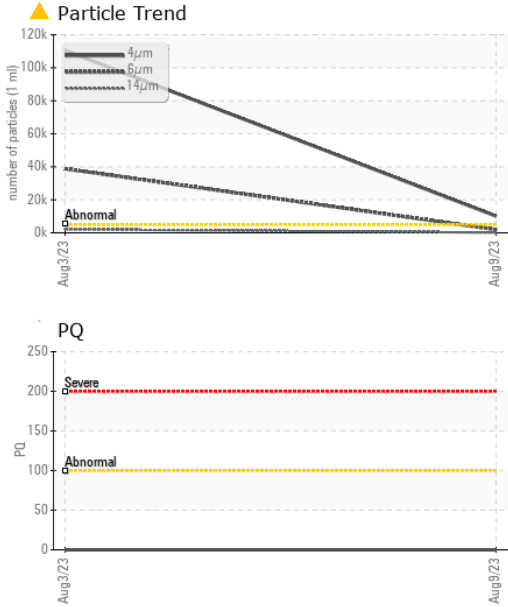
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	14	15
Sodium	ppm	ASTM D5185(m)	4	6
Potassium	ppm	ASTM D5185(m) >20	1	2

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 10053	110451
Particles >6µm	ASTM D7647	>1300	▲ 1926	38787
Particles >14µm	ASTM D7647	>160	90	2118
Particles >21µm	ASTM D7647	>40	24	585
Particles >38µm	ASTM D7647	>10	1	24
Particles >71µm	ASTM D7647	>3	1	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/18/14	24/22/18



OIL ANALYSIS REPORT

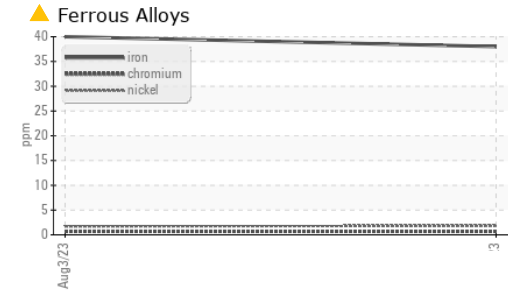


FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.71	0.83	---

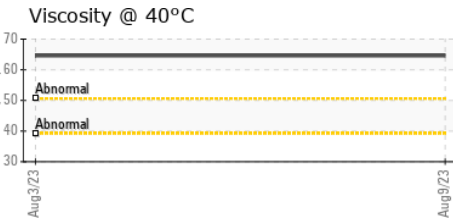
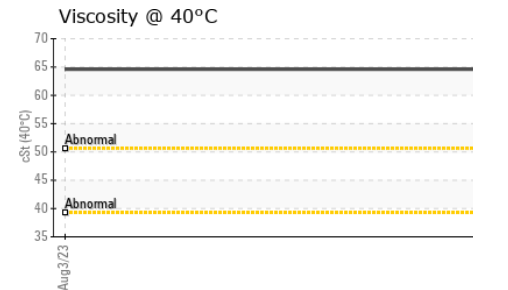
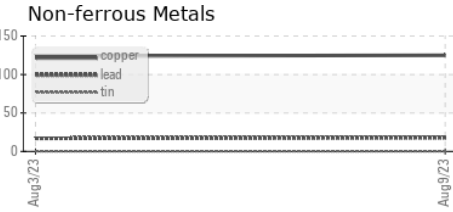
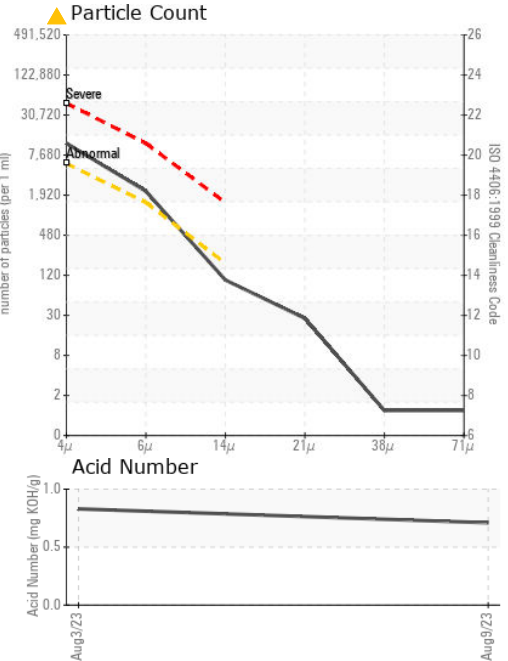
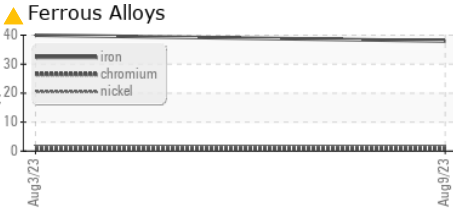
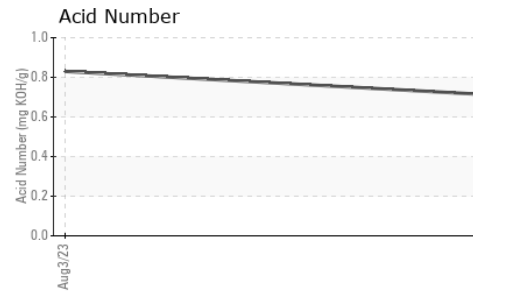
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	64.6	64.6	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC **Received** : 10 Aug 2023
Lab Number : 02575157 **Diagnosed** : 11 Aug 2023
Unique Number : 5620208 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: PQ)

Goodyear Napanee
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 NAPANEE, ON
 CA K7R 3L2
 Contact: Greg Allen
 greg.allen@goodyear.com
 T:
 F: (613)354-9377

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.