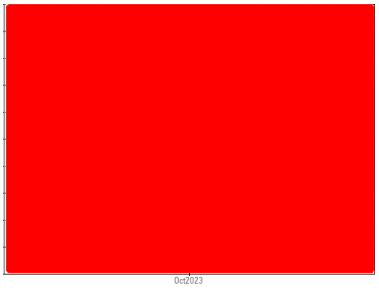
PROBLEM SUMMARY

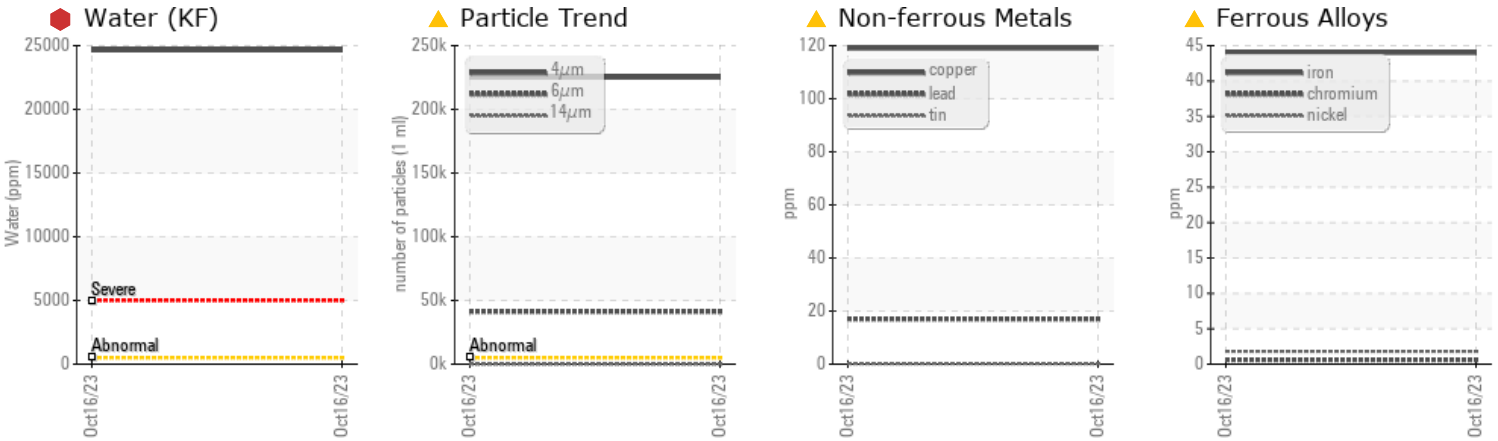
Sample Rating Trend



WATER

Area
Goodyear - G04000
Machine Id
A2310085
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

This is a baseline read-out on the submitted sample.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ **44**	---	---
Lead	ppm	ASTM D5185(m)	>20	▲ **17**	---	---
Copper	ppm	ASTM D5185(m)	>20	▲ **119**	---	---
Water	%	ASTM D6304*	>0.05	⬢ **2.464**	---	---
ppm Water	ppm	ASTM D6304*	>500	⬢ **24645.7**	---	---
Particles >4µm		ASTM D7647	>5000	▲ **225058**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **41314**	---	---
Particles >14µm		ASTM D7647	>160	▲ **166**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **25/23/15**	---	---
Appearance	scalar	Visual*	NORML	▲ **LAYRD**	---	---
Emulsified Water	scalar	Visual*	>0.05	⬢ **.5%**	---	---
Free Water	scalar	Visual*		⬢ **5%**	---	---

Customer Id: CHECOB
Sample No.: E30000524
Lab Number: 02590072
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Tatiana Sorkina +1 (800)263-3939
tsorkina@e360s.ca

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

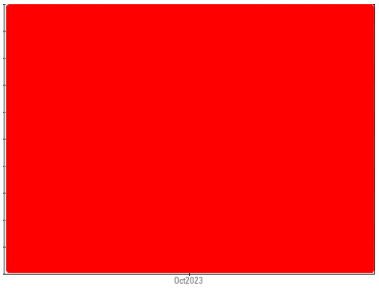
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
Goodyear - G04000
Machine Id
A2310085
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample.

Wear
Copper, iron and lead ppm levels are noted.

Contamination
ppm Water and water and water and water contamination levels are severe. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Oil Cleanliness are abnormally high. Particles >14µm are notably high.

Fluid Condition
{not applicable}

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Batch #		Client Info		**2023 10 0250**	---	---
Machine ID		Client Info		**A2310085**	---	---
Department		Client Info		**Production**	---	---
Production Stage		Client Info		**Final**	---	---
Sent to WC		Client Info		**10/16/2023**	---	---
Sample Number		Client Info		**E30000524**	---	---
Sample Date		Client Info		**16 Oct 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

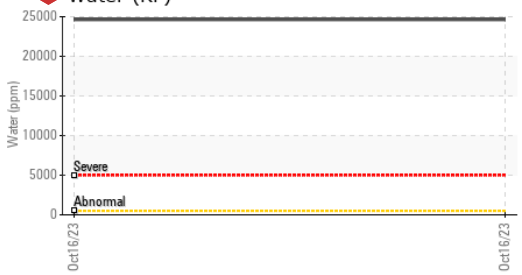
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ **44**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**2**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**6**	---	---
Lead	ppm	ASTM D5185(m)	>20	▲ **17**	---	---
Copper	ppm	ASTM D5185(m)	>20	▲ **119**	---	---
Tin	ppm	ASTM D5185(m)	>20	**<1**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	**1**	---	---
Barium	ppm	ASTM D5185(m)	5	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	5	**0**	---	---
Manganese	ppm	ASTM D5185(m)		**<1**	---	---
Magnesium	ppm	ASTM D5185(m)	25	**9**	---	---
Calcium	ppm	ASTM D5185(m)	200	**54**	---	---
Phosphorus	ppm	ASTM D5185(m)	300	**682**	---	---
Zinc	ppm	ASTM D5185(m)	370	**539**	---	---
Sulfur	ppm	ASTM D5185(m)	2500	**2232**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

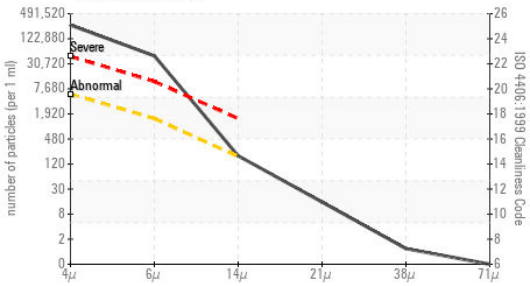
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**14**	---	---
Sodium	ppm	ASTM D5185(m)		**2**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*	>0.05	⬢ **2.464**	---	---
ppm Water	ppm	ASTM D6304*	>500	⬢ **24645.7**	---	---

OIL ANALYSIS REPORT

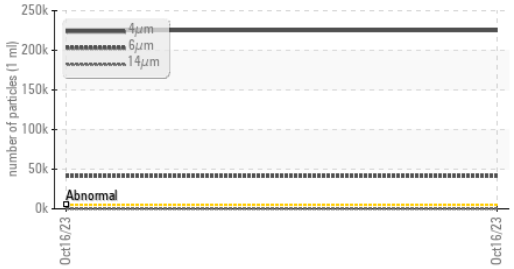
Water (KF)



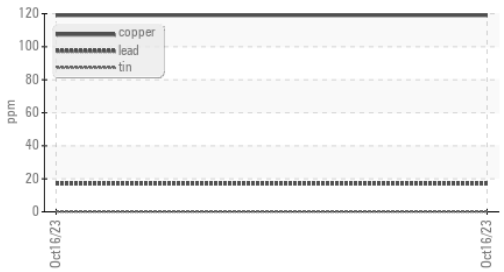
Particle Count



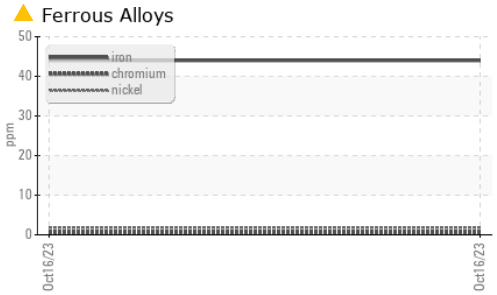
Particle Trend



Non-ferrous Metals



Ferrous Alloys



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **225058**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **41314**	---	---
Particles >14µm		ASTM D7647	>160	▲ **166**	---	---
Particles >21µm		ASTM D7647	>40	**13**	---	---
Particles >38µm		ASTM D7647	>10	**1**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **25/23/15**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	**0.93**	---	---

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	▲ **LAYRD**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---
Emulsified Water	scalar	Visual*	>0.05	⬢ **.5%**	---	---
Free Water	scalar	Visual*		⬢ **5%**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	**69.6**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	**7.7**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	96	**63**	---	---

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000524 **Received** : 18 Oct 2023
Lab Number : 02590072 **Diagnosed** : 20 Oct 2023
Unique Number : 5659138 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, TAN Man, VI)

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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