



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
092945
Component
Front Left Final Drive
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

WEAR

Copper, lead and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated.

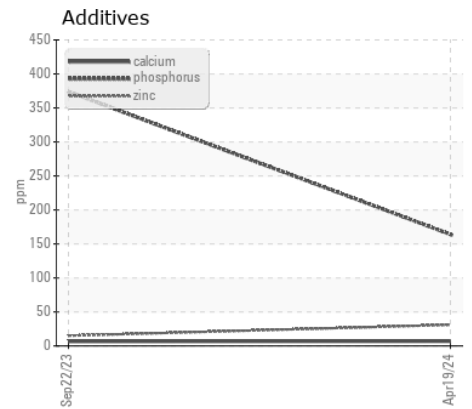
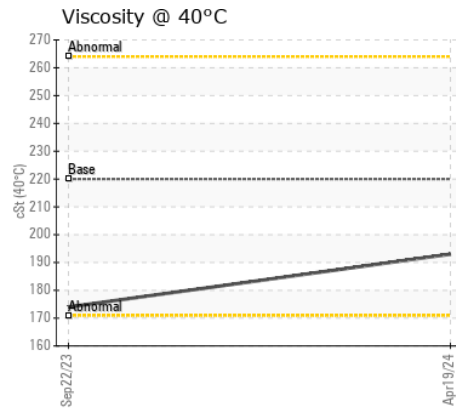
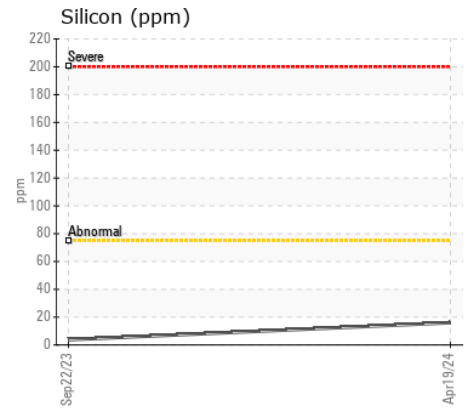
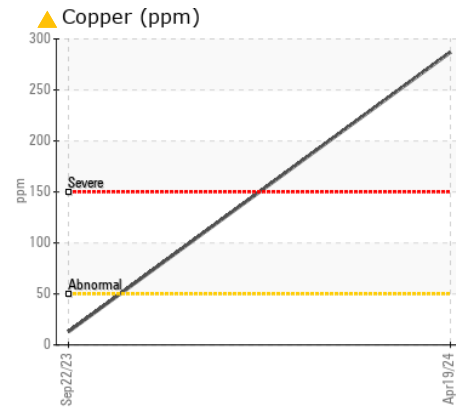
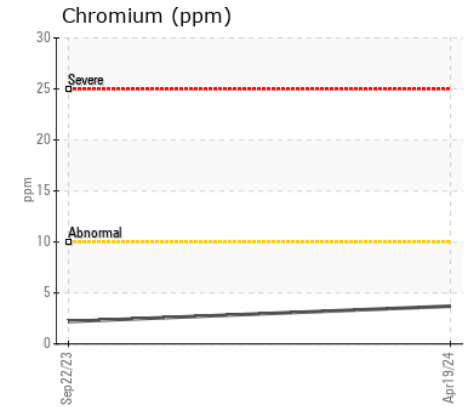
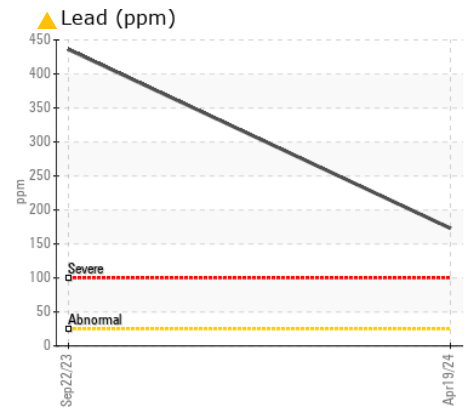
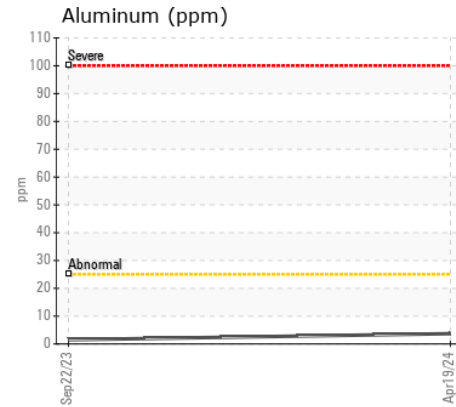
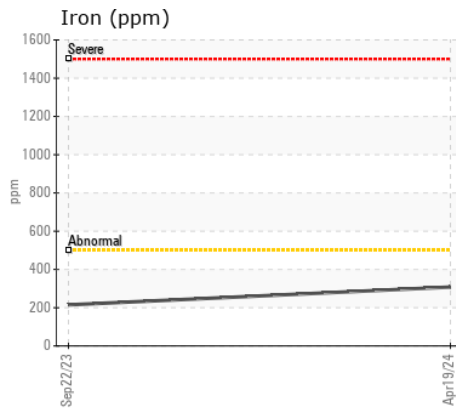
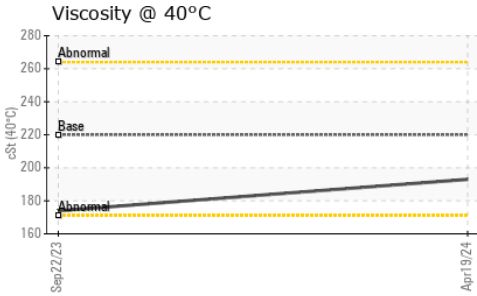
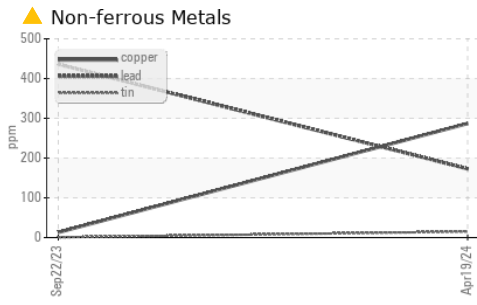
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0890776	WC0851989	---
Sample Date		Client Info		19 Apr 2024	22 Sep 2023	---
Machine Age	hrs	Client Info		488	150	---
Oil Age	hrs	Client Info		438	150	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>500	308	215	---
Chromium	ppm	ASTM D5185(m)	>10	4	2	---
Nickel	ppm	ASTM D5185(m)	>10	1	<1	---
Titanium	ppm	ASTM D5185(m)		<1	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	4	2	---
Lead	ppm	ASTM D5185(m)	>25	▲ 173	▲ 436	---
Copper	ppm	ASTM D5185(m)	>50	▲ 287	13	---
Tin	ppm	ASTM D5185(m)	>10	▲ 15	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>75	16	4	---
Potassium	ppm	ASTM D5185(m)	>20	1	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		3	4	---
Boron	ppm	ASTM D5185(m)	50	7	8	---
Barium	ppm	ASTM D5185(m)	15	3	4	---
Molybdenum	ppm	ASTM D5185(m)	15	0	0	---
Manganese	ppm	ASTM D5185(m)		3	3	---
Magnesium	ppm	ASTM D5185(m)	50	1	1	---
Calcium	ppm	ASTM D5185(m)	50	7	7	---
Phosphorus	ppm	ASTM D5185(m)	350	164	374	---
Zinc	ppm	ASTM D5185(m)	100	31	15	---
Sulfur	ppm	ASTM D5185(m)	12500	4098	4572	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	193	174	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0890776 **Received** : 23 Apr 2024
Lab Number : 02631025 **Tested** : 23 Apr 2024
Unique Number : 5772178 **Diagnosed** : 23 Apr 2024 - Kevin Marson
Test Package : MOB 1

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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.