



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>



Machine Id  
**WL0424**  
Component  
**Front Differential**  
Fluid  
**CAT TDTO TRANS-DRIVE SAE 30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100653</b>	GFL0077020	---
Sample Date		Client Info		<b>12 May 2024</b>	09 Aug 2023	---
Machine Age	kms	Client Info		<b>6447</b>	5470	---
Oil Age	kms	Client Info		<b>0</b>	0	---
Filter Age	kms	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>92</b>	80	---
Chromium	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>13	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>103	<b>14</b>	14	---
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

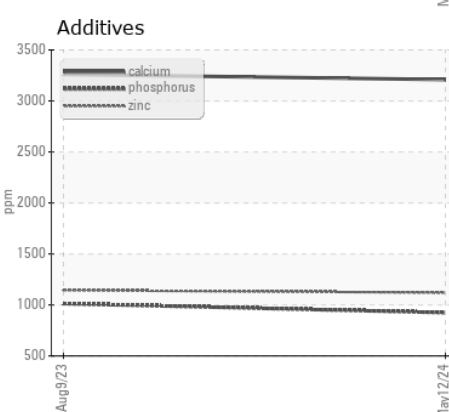
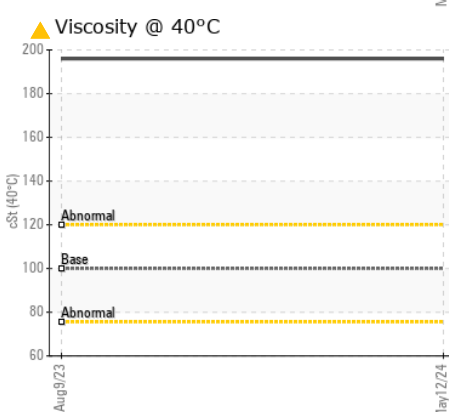
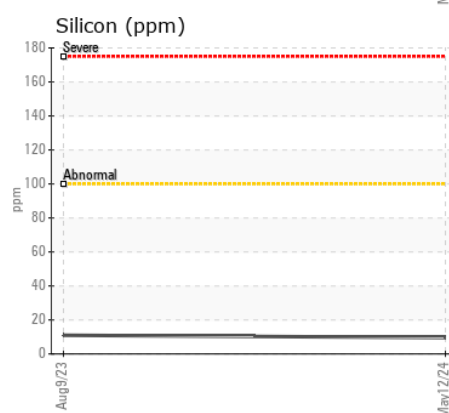
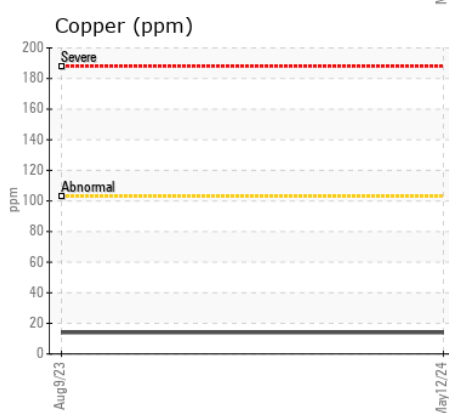
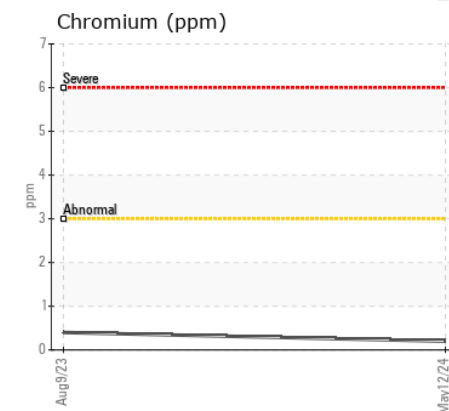
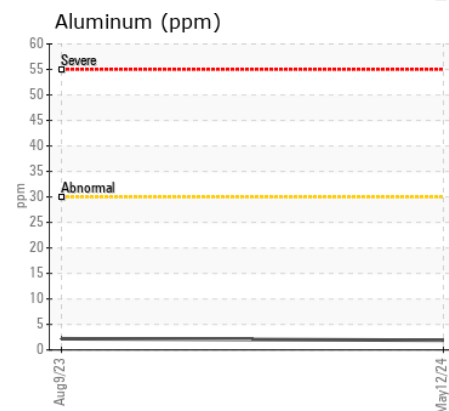
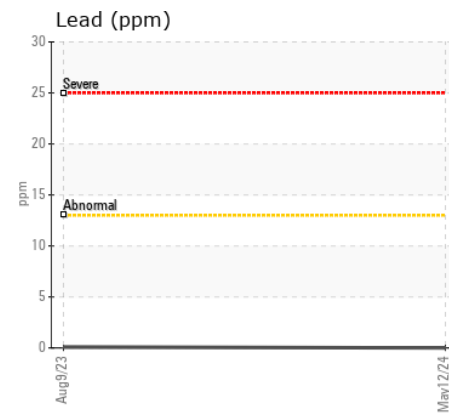
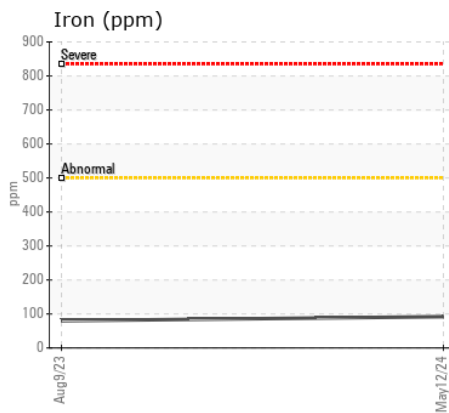
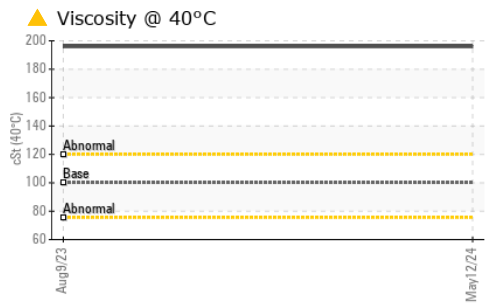
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	<b>10</b>	11	---
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Boron	ppm	ASTM D5185(m)		<b>4</b>	5	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>6</b>	6	---
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	---
Magnesium	ppm	ASTM D5185(m)		<b>15</b>	16	---
Calcium	ppm	ASTM D5185(m)	2980	<b>3209</b>	3260	---
Phosphorus	ppm	ASTM D5185(m)	1100	<b>924</b>	1013	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1120</b>	1144	---
Sulfur	ppm	ASTM D5185(m)		<b>4685</b>	5034	---
Visc @ 40°C	cSt	ASTM D7279(m)	100	<b>▲ 196</b>	196	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100653  
**Lab Number** : 02635334  
**Unique Number** : 5776487  
**Test Package** : MOB 1

**GFL Environmental - 575 - Squamish Hauling**  
 38950 Queens Way,  
 Squamish, BC  
 CA V8B 0K8  
 Contact: Jonas Araujo  
 jaraujo@gflenv.com

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.