



Machine Id
WL0424
Component
Transmission (Manual)
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		GFL0100655	GFL0077024	---
Sample Date		Client Info		12 May 2024	09 Aug 2023	---
Machine Age	kms	Client Info		6447	5470	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		1000	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	19	19	---
Chromium	ppm	ASTM D5185(m)	>5	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>7	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	2	2	---
Lead	ppm	ASTM D5185(m)	>45	12	11	---
Copper	ppm	ASTM D5185(m)	>225	49	46	---
Tin	ppm	ASTM D5185(m)	>10	<1	1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

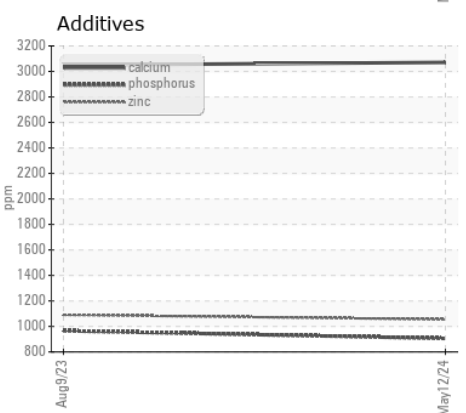
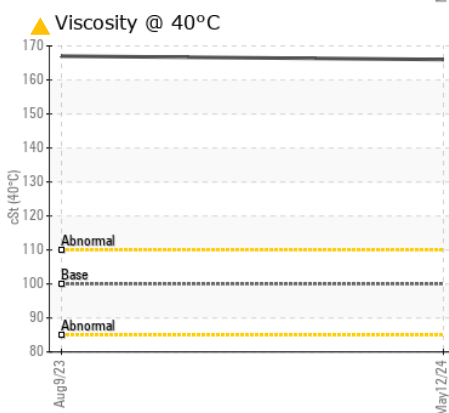
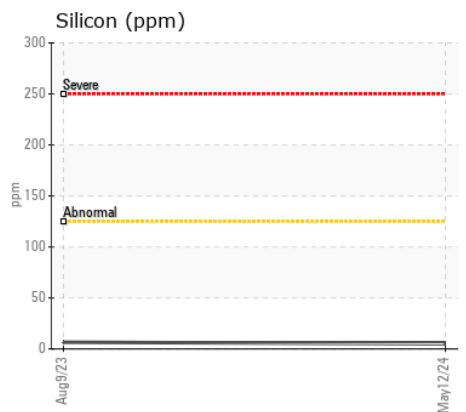
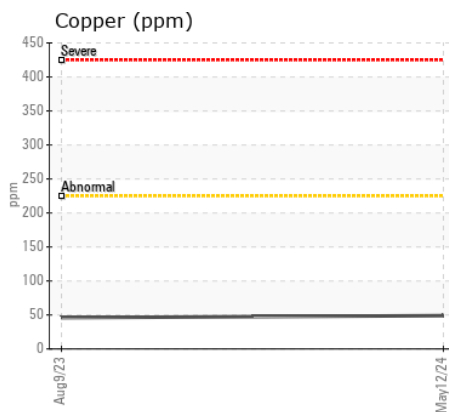
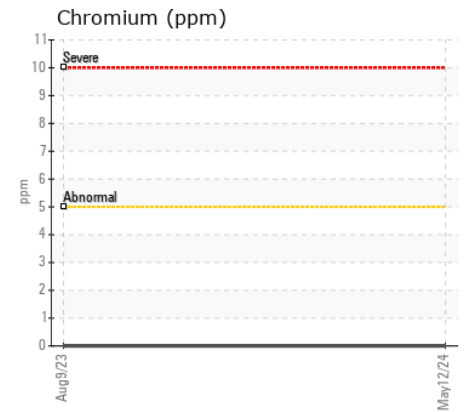
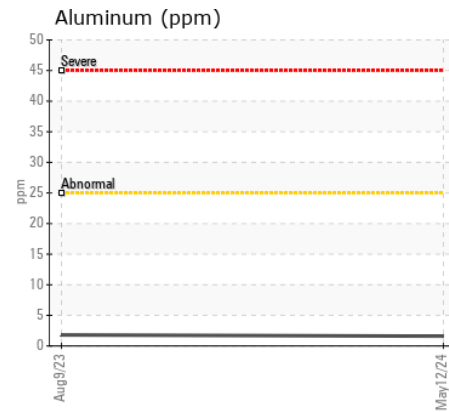
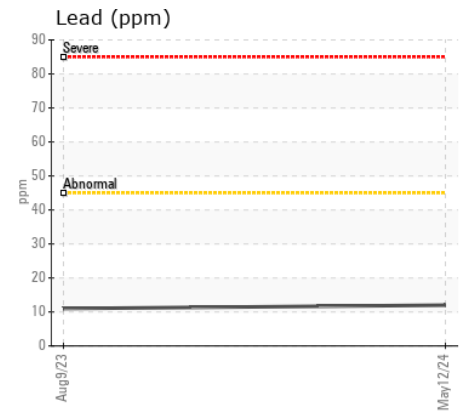
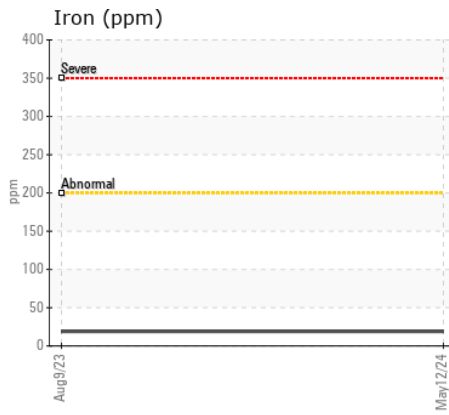
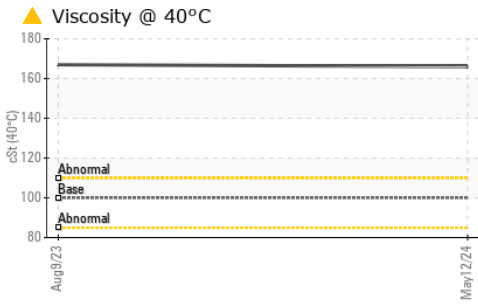
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	5	7	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.1	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*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		1	1	---
Boron	ppm	ASTM D5185(m)		5	6	---
Barium	ppm	ASTM D5185(m)		<1	<1	---
Molybdenum	ppm	ASTM D5185(m)		<1	2	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		15	16	---
Calcium	ppm	ASTM D5185(m)	2980	3071	3050	---
Phosphorus	ppm	ASTM D5185(m)	1100	906	966	---
Zinc	ppm	ASTM D5185(m)	1270	1055	1091	---
Sulfur	ppm	ASTM D5185(m)		4446	4490	---
Visc @ 40°C	cSt	ASTM D7279(m)	100	▲ 166	▲ 167	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100655 **Received** : 14 May 2024
Lab Number : 02635323 **Tested** : 14 May 2024
Unique Number : 5776476 **Diagnosed** : 14 May 2024 - Kevin Marson
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.

T:
F: