



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
WL0424
Component
Rear 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		GFL0100652	GFL0077022	---
Sample Date		Client Info		12 May 2024	09 Aug 2023	---
Machine Age	kms	Client Info		6447	5420	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		N/A	Not Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	190	178	---
Chromium	ppm	ASTM D5185(m)	>3	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>3	<1	0	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	2	3	---
Lead	ppm	ASTM D5185(m)	>13	0	<1	---
Copper	ppm	ASTM D5185(m)	>103	14	15	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

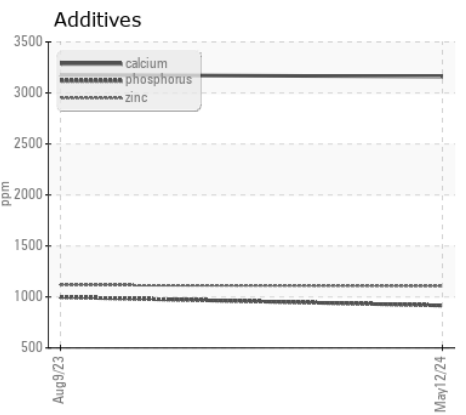
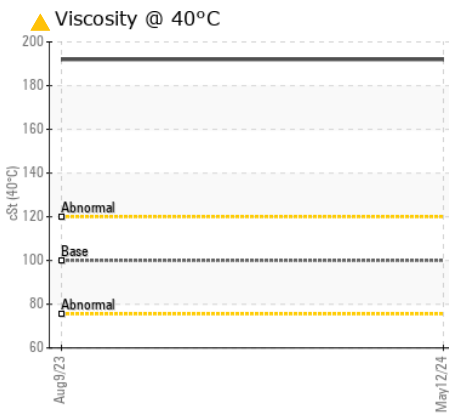
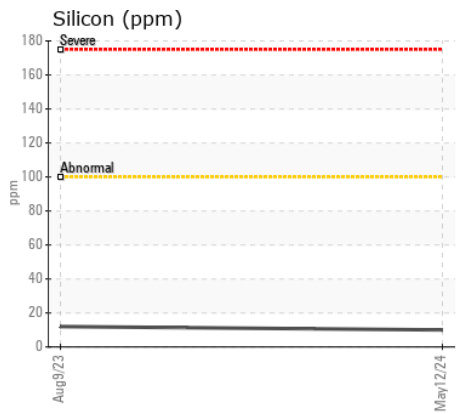
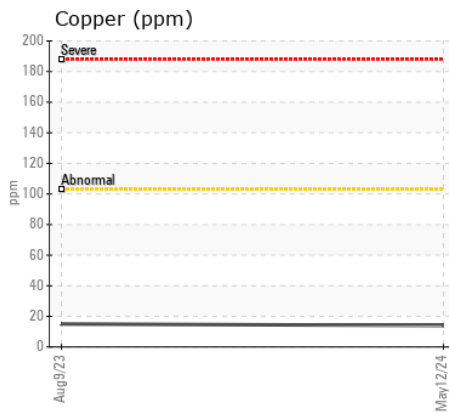
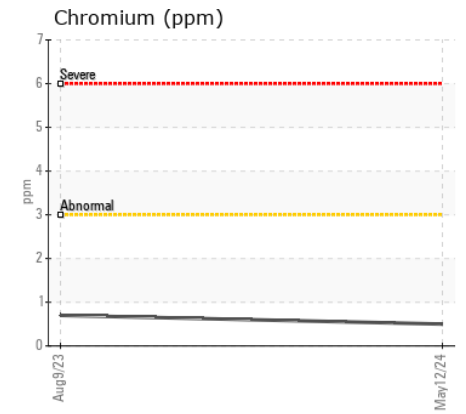
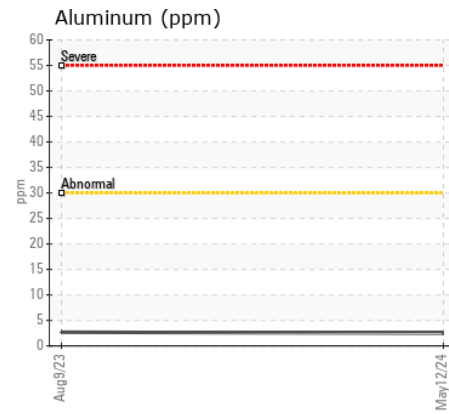
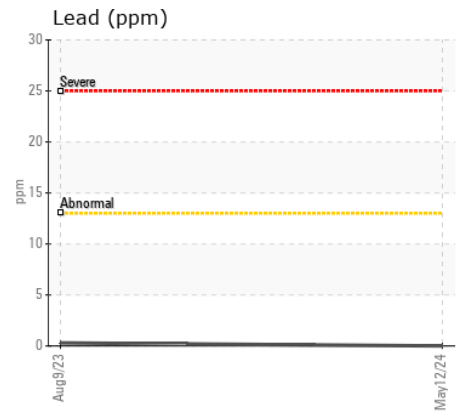
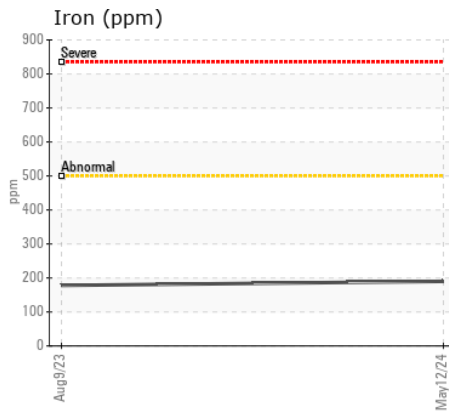
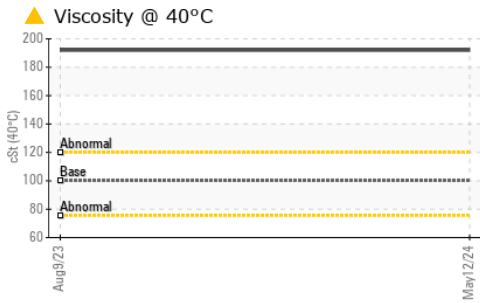
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	10	12	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>.2	NEG	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)		<1	<1	---
Boron	ppm	ASTM D5185(m)		4	4	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		4	4	---
Manganese	ppm	ASTM D5185(m)		3	3	---
Magnesium	ppm	ASTM D5185(m)		16	16	---
Calcium	ppm	ASTM D5185(m)	2980	3161	3177	---
Phosphorus	ppm	ASTM D5185(m)	1100	916	998	---
Zinc	ppm	ASTM D5185(m)	1270	1106	1117	---
Sulfur	ppm	ASTM D5185(m)		4575	4810	---
Visc @ 40°C	cSt	ASTM D7279(m)	100	▲ 192	192	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100652
Lab Number : 02635335
Unique Number : 5776488
Test Package : MOB 1

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 CA V8B 0K8
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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.