

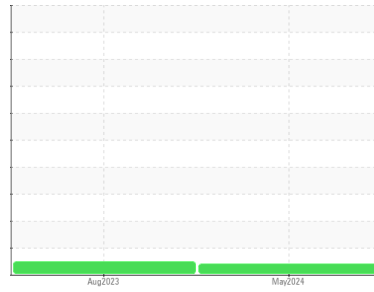


OIL ANALYSIS REPORT



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

Sample Rating Trend



VISCOSITY



DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0100653	GFL0077020	---
Sample Date	Client Info		12 May 2024	09 Aug 2023	---
Machine Age	kms	Client Info	6447	5470	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>500	92	80	---
Chromium	ppm	ASTM D5185(m)	>3	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>3	0	0	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	2	2	---
Lead	ppm	ASTM D5185(m)	>13	0	<1	---
Copper	ppm	ASTM D5185(m)	>103	14	14	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

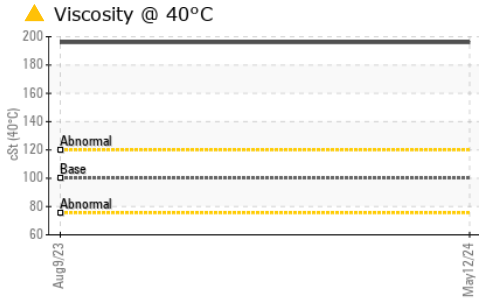
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		4	5	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		6	6	---
Manganese	ppm	ASTM D5185(m)		2	2	---
Magnesium	ppm	ASTM D5185(m)		15	16	---
Calcium	ppm	ASTM D5185(m)	2980	3209	3260	---
Phosphorus	ppm	ASTM D5185(m)	1100	924	1013	---
Zinc	ppm	ASTM D5185(m)	1270	1120	1144	---
Sulfur	ppm	ASTM D5185(m)		4685	5034	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	10	11	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---



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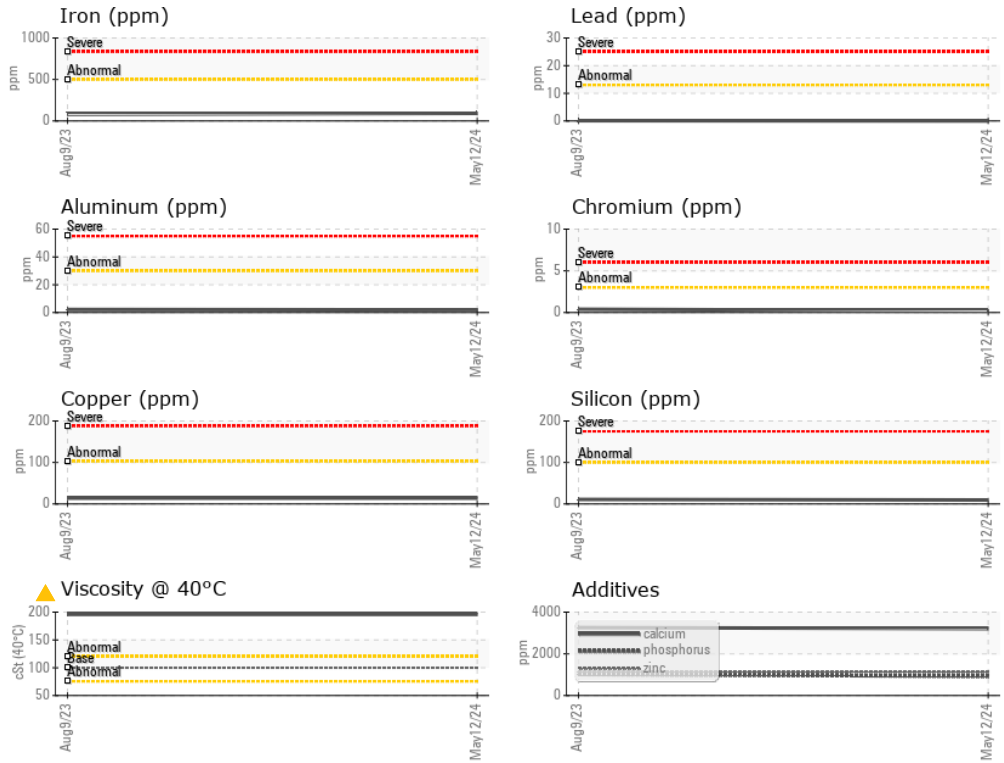
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	100 ▲ 196	196	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100653
Lab Number : 02635334
Unique Number : 5776487
Test Package : MOB 1
Received : 14 May 2024
Tested : 14 May 2024
Diagnosed : 15 May 2024 - Kevin Marson

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.