



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
WL0424
Component
Rear Differential
Fluid
SAE 30W (--- GAL)



DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as (GENERIC) SAE 30W, however, a fluid match indicates that this fluid is SAE 50 Transmission/Drive Train Oil. Please confirm the oil type and grade on your next sample.

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. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0077022	---	---
Sample Date	Client Info		09 Aug 2023	---	---
Machine Age	kms	Client Info	5420	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	178	---	---
Chromium	ppm	ASTM D5185(m) >3	<1	---	---
Nickel	ppm	ASTM D5185(m) >3	0	---	---
Titanium	ppm	ASTM D5185(m) >2	<1	---	---
Silver	ppm	ASTM D5185(m) >2	0	---	---
Aluminum	ppm	ASTM D5185(m) >30	3	---	---
Lead	ppm	ASTM D5185(m) >13	<1	---	---
Copper	ppm	ASTM D5185(m) >103	15	---	---
Tin	ppm	ASTM D5185(m) >5	0	---	---
Antimony	ppm	ASTM D5185(m) >5	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	4	---	---
Manganese	ppm	ASTM D5185(m)	3	---	---
Magnesium	ppm	ASTM D5185(m)	16	---	---
Calcium	ppm	ASTM D5185(m)	3177	---	---
Phosphorus	ppm	ASTM D5185(m)	998	---	---
Zinc	ppm	ASTM D5185(m)	1117	---	---
Sulfur	ppm	ASTM D5185(m)	4810	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

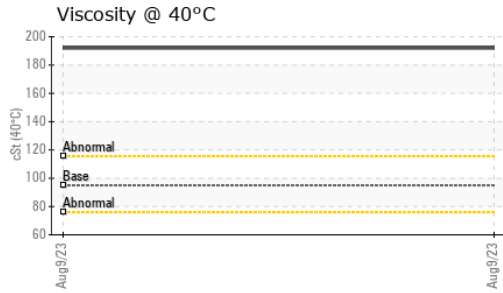
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >100	12	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---

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	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	---	---



OIL ANALYSIS REPORT

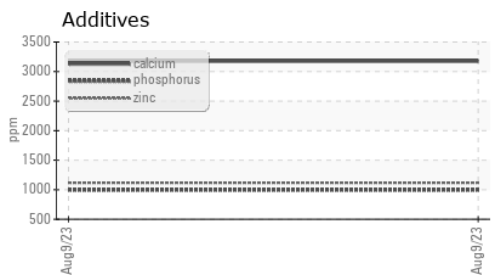
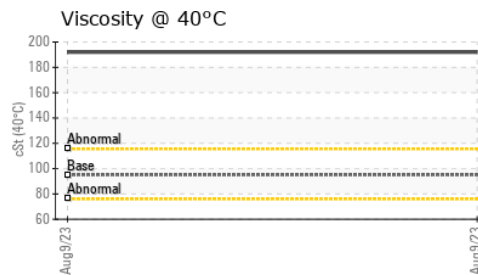
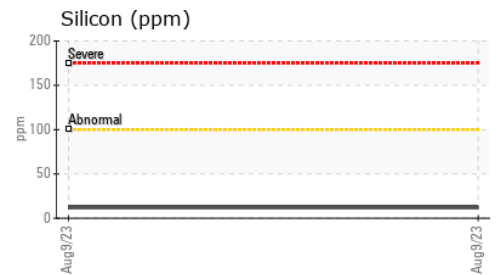
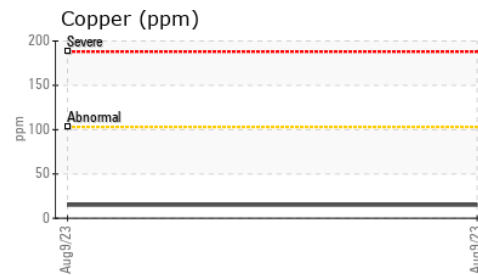
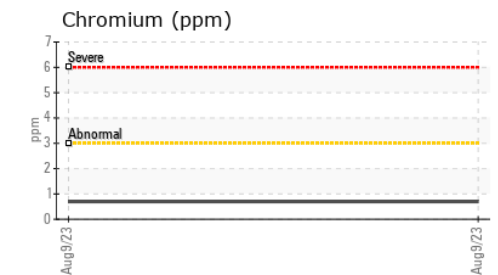
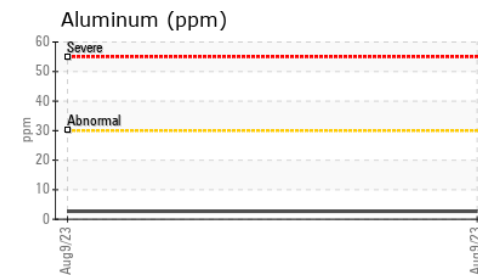
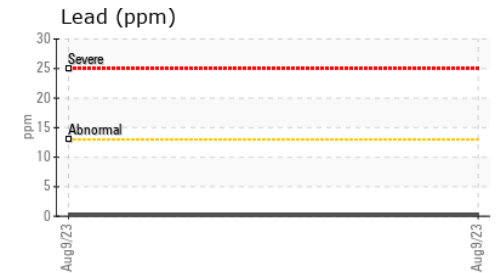
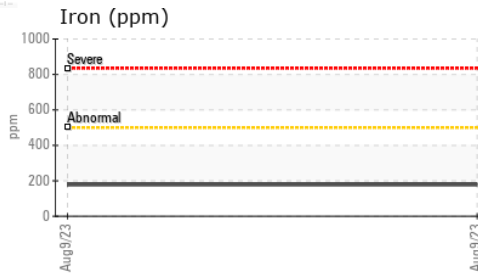


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	95.0	192	---	---

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

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0077022 **Received** : 14 Aug 2023 38950 Queens Way,
Lab Number : 02575777 **Diagnosed** : 14 Aug 2023 Squamish, BC
Unique Number : 5620828 **Diagnostician** : Kevin Marson CA V8B 0K8
Test Package : MOB 1 Contact: Dean Imbeau
dimbeau@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.

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