



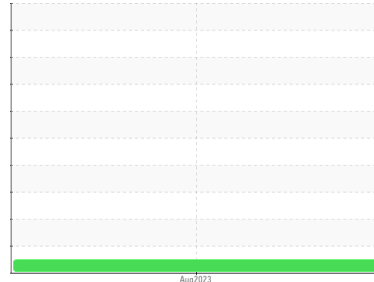
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
OR869
 Component
Front Differential
 Fluid
CAT TDTO TRANS-DRIVE SAE 30 (--- GAL)



DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0076986	---	---
Sample Date	Client Info		25 Aug 2023	---	---
Machine Age	hrs	Client Info	16750	---	---
Oil Age	hrs	Client Info	1161	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	70	---	---
Chromium	ppm	ASTM D5185(m) >3	<1	---	---
Nickel	ppm	ASTM D5185(m) >3	0	---	---
Titanium	ppm	ASTM D5185(m) >2	0	---	---
Silver	ppm	ASTM D5185(m) >2	0	---	---
Aluminum	ppm	ASTM D5185(m) >30	2	---	---
Lead	ppm	ASTM D5185(m) >13	1	---	---
Copper	ppm	ASTM D5185(m) >103	50	---	---
Tin	ppm	ASTM D5185(m) >5	2	---	---
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)	40	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	<1	---	---
Manganese	ppm	ASTM D5185(m)	1	---	---
Magnesium	ppm	ASTM D5185(m)	14	---	---
Calcium	ppm	ASTM D5185(m) 2980	3847	---	---
Phosphorus	ppm	ASTM D5185(m) 1100	953	---	---
Zinc	ppm	ASTM D5185(m) 1270	981	---	---
Sulfur	ppm	ASTM D5185(m)	4494	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

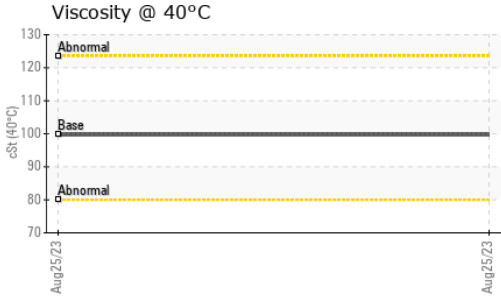
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >100	19	---	---
Sodium	ppm	ASTM D5185(m)	<1	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---

VISUAL

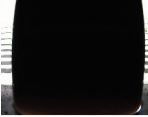

	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	VLITE	---	---
Yellow Metal	scalar	Visual* NONE	NONE	---	---
Precipitate	scalar	Visual* NONE	NONE	---	---
Silt	scalar	Visual* NONE	NONE	---	---
Debris	scalar	Visual* NONE	NONE	---	---
Sand/Dirt	scalar	Visual* NONE	NONE	---	---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



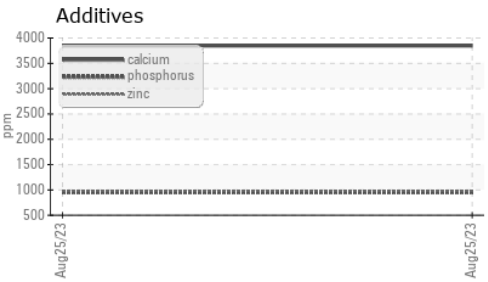
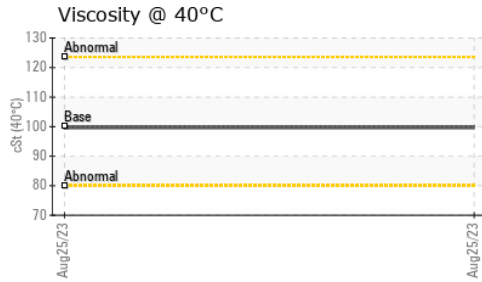
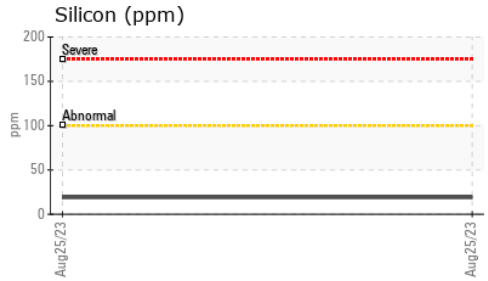
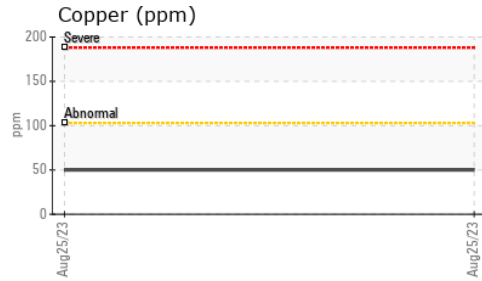
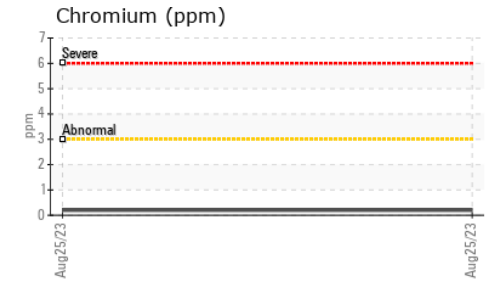
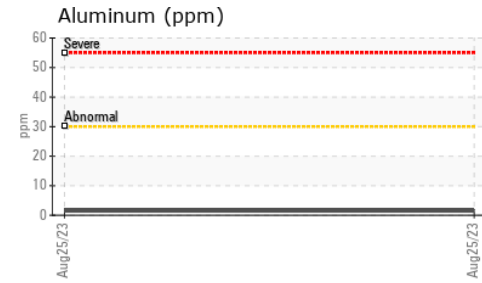
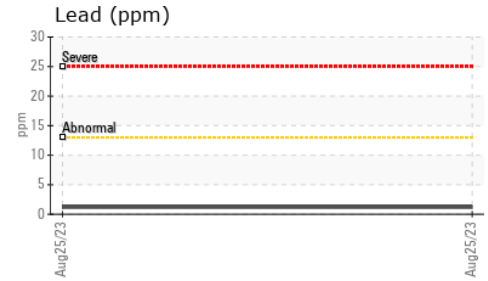
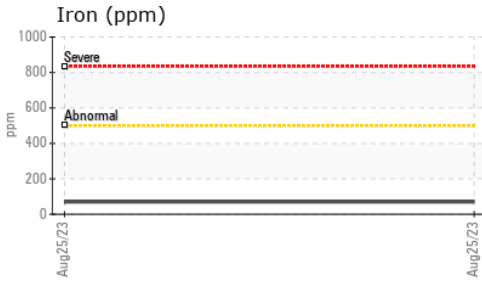
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	100	99.7	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0076986 **Received** : 30 Aug 2023 38950 Queens Way,
Lab Number : 02579409 **Diagnosed** : 30 Aug 2023 Squamish, BC
Unique Number : 5632469 **Diagnostician** : Wes Davis CA V8B 0K8
Test Package : MOB 1

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.

Contact: Dean Imbeau
 dimbeau@gflenv.com
 T: (604)892-5604
 F: (604)892-5238