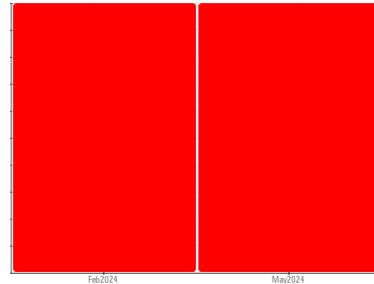




# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

**EX0259**

Component

**Left Planetary**

Fluid

**GEAR OIL SAE 75W90 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels de la saleté peut pénétrer dans le système. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Le fluide n'était pas spécifié, toutefois, une comparaison avec d'autres fluides indiquent que ce fluide est du (GENERIC) GEAR OIL SAE 75W90. Veuillez confirmer.

### ▲ Wear

Usure de palier. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

### ▲ Contamination

Les niveaux élémentaires de silicone (Si) et d'aluminium (Al) indiquent l'infiltration d'alumine-silicate (grosses particules de poussière). Une grande quantité de saleté a provoqué une usure abrasive du composant.

### Fluid Condition

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0107447</b>	GFL0107441	---
Sample Date	Client Info		<b>22 May 2024</b>	19 Feb 2024	---
Machine Age	kms	Client Info	<b>8540</b>	8342	---
Oil Age	kms	Client Info	<b>250</b>	2000	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>SEVERE</b>	SEVERE	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>424</b>	▲ 2057	---
Iron	ppm	ASTM D5185(m) >500	▲ <b>3150</b>	▲ 10246	---
Chromium	ppm	ASTM D5185(m) >10	▲ <b>18</b>	▲ 75	---
Nickel	ppm	ASTM D5185(m) >10	<b>4</b>	▲ 17	---
Titanium	ppm	ASTM D5185(m)	▲ <b>11</b>	▲ 47	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >25	● <b>208</b>	● 865	---
Lead	ppm	ASTM D5185(m) >25	<b>0</b>	2	---
Copper	ppm	ASTM D5185(m) >75	<b>7</b>	25	---
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	1	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

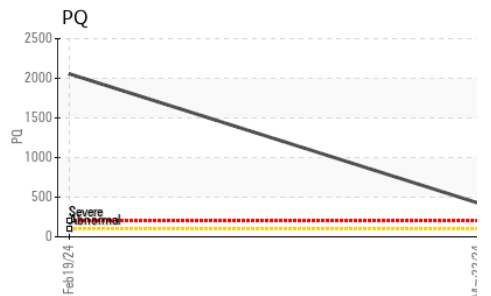
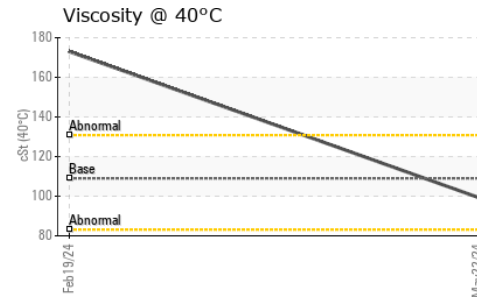
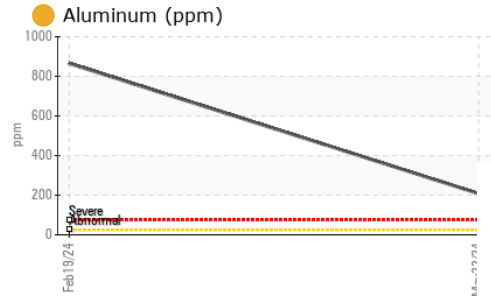
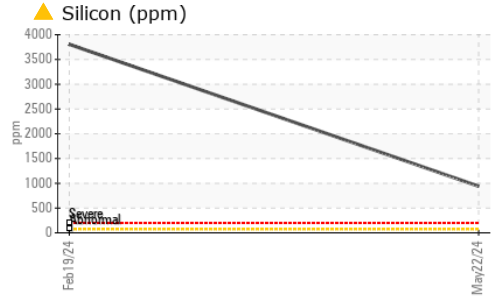
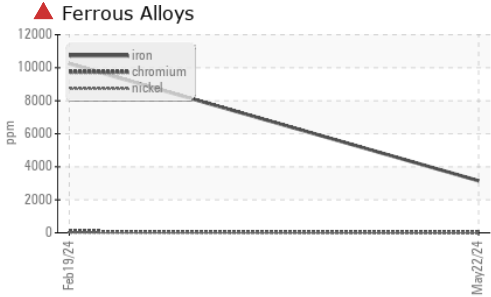
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 400	<b>157</b>	20	---
Barium	ppm	ASTM D5185(m) 200	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 12	<b>&lt;1</b>	5	---
Manganese	ppm	ASTM D5185(m)	<b>23</b>	87	---
Magnesium	ppm	ASTM D5185(m) 12	<b>56</b>	202	---
Calcium	ppm	ASTM D5185(m) 150	<b>179</b>	689	---
Phosphorus	ppm	ASTM D5185(m) 1650	<b>1140</b>	666	---
Zinc	ppm	ASTM D5185(m) 125	<b>45</b>	143	---
Sulfur	ppm	ASTM D5185(m) 22500	<b>21355</b>	38509	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	▲ <b>941</b>	▲ 3806	---
Sodium	ppm	ASTM D5185(m)	<b>71</b>	299	---
Potassium	ppm	ASTM D5185(m) >20	<b>64</b>	266	---



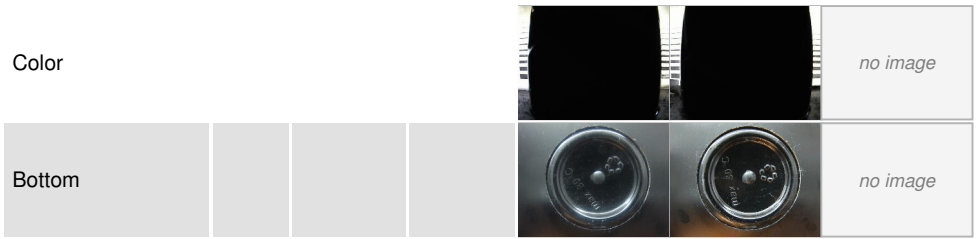
# OIL ANALYSIS REPORT



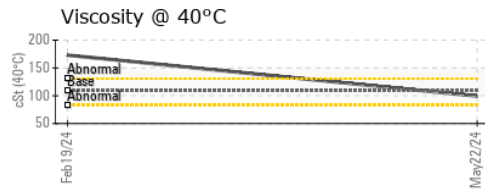
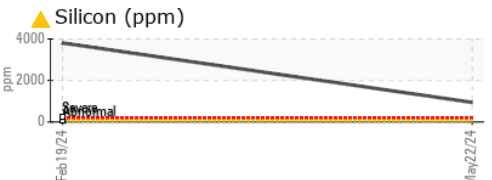
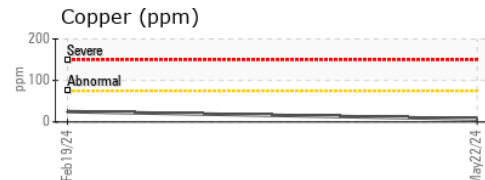
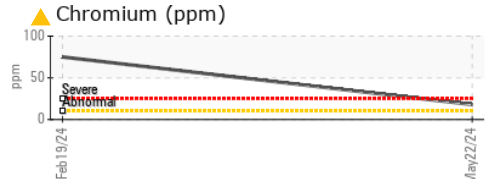
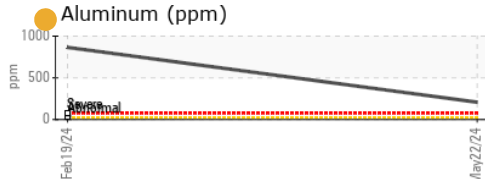
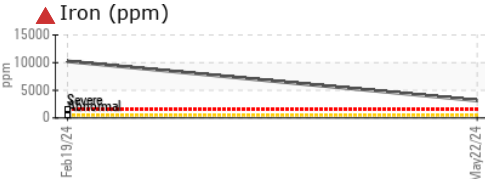
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG ▲ .2%	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	109	99.3 ▲ 173	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107447      **Received** : 23 May 2024  
**Lab Number** : 02637245      **Tested** : 23 May 2024  
**Unique Number** : 5786407      **Diagnosed** : 24 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**GFL Environmental - 772**  
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 Brownsburg-Chatham, QC  
 CA J8G 1B9  
 Contact: Kelly-Ann Forbes  
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 T: (450)566-3721  
 F:

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.