

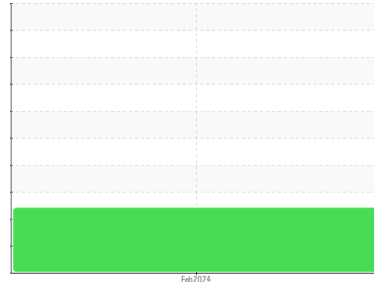


# OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Area  
**(L913871)**  
 Machine Id  
**WESTERN STAR 829119**  
 Component  
**Transmission (Auto)**  
 Fluid  
**SHELL SPIRAX S6 ATF (--- GAL)**



## DIAGNOSIS

### Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels de la saleté peut pénétrer dans le système. Nous vous recommandons de vidanger le fluide de ce composant si vous ne l'avez pas déjà fait. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

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

### Contamination

Concentration modérée de saleté dans le fluide. Une grande quantité de saleté a provoqué une usure abrasive du composant.

### Fluid Condition

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. le fluide 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>GFL0081620</b>	---	---
Sample Date	Client Info	<b>27 Feb 2024</b>	---	---
Machine Age	hrs Client Info	<b>11443</b>	---	---
Oil Age	hrs Client Info	<b>2780</b>	---	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184* >50	<b>5</b>	---	---
Iron	ppm ASTM D5185(m) >160	<b>▲ 231</b>	---	---
Chromium	ppm ASTM D5185(m) >5	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185(m) >5	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m) >5	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m) >50	<b>32</b>	---	---
Lead	ppm ASTM D5185(m) >50	<b>6</b>	---	---
Copper	ppm ASTM D5185(m) >225	<b>17</b>	---	---
Tin	ppm ASTM D5185(m) >10	<b>2</b>	---	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

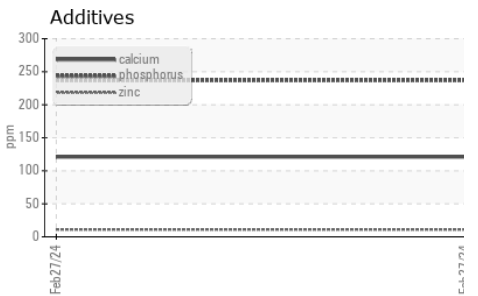
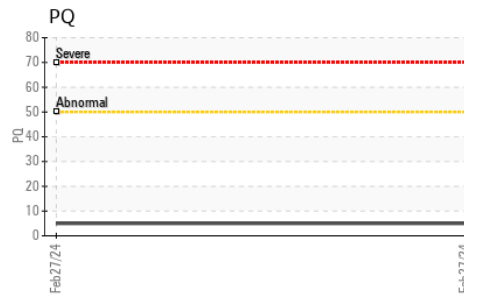
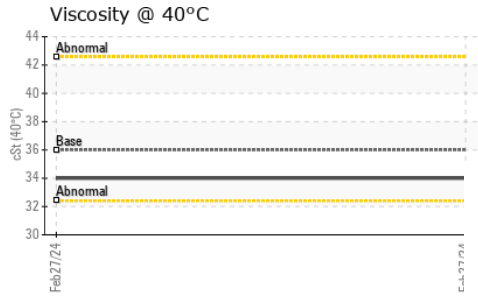
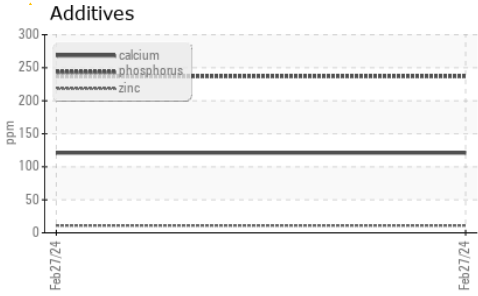
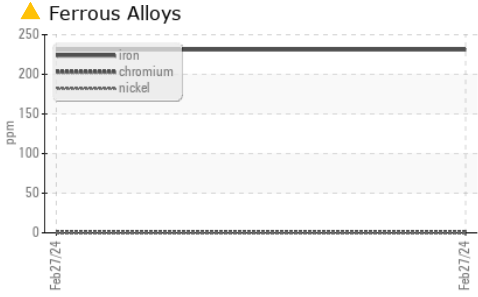
## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>73</b>	---	---
Barium	ppm ASTM D5185(m)	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	---	---
Manganese	ppm ASTM D5185(m)	<b>1</b>	---	---
Magnesium	ppm ASTM D5185(m)	<b>1</b>	---	---
Calcium	ppm ASTM D5185(m)	<b>121</b>	---	---
Phosphorus	ppm ASTM D5185(m)	<b>237</b>	---	---
Zinc	ppm ASTM D5185(m)	<b>11</b>	---	---
Sulfur	ppm ASTM D5185(m)	<b>1419</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>▲ 20</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>5</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>2</b>	---	---

# OIL ANALYSIS REPORT



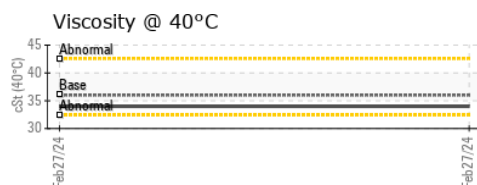
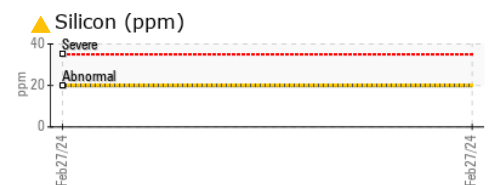
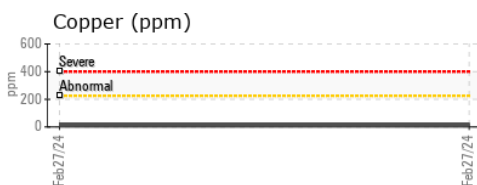
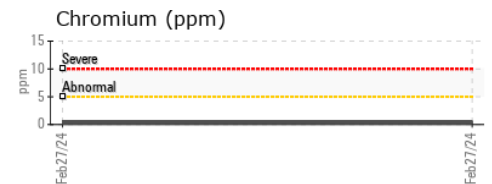
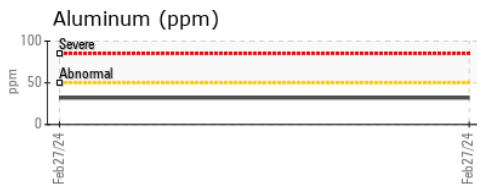
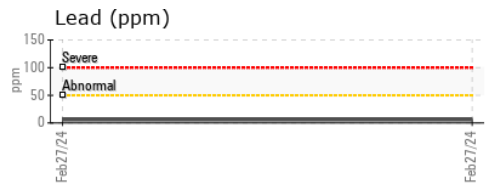
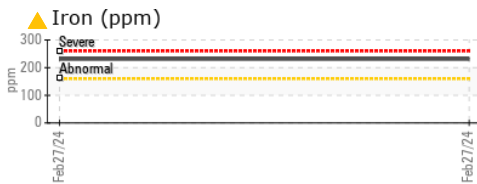
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	36	34.0	---	---

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  
**Sample No.** : GFL0081620      **Received** : 29 Feb 2024  
**Lab Number** : 02618995      **Tested** : 29 Feb 2024  
**Unique Number** : 5736105      **Diagnosed** : 29 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**GFL Environmental - 774**  
 169 Route 117  
 Mont-Tremblant, QC  
 CA J8E 1A1  
 Contact: Stephane Filteau  
 sfilteau@matrec.ca

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.

T:  
F: