



Machine Id  
**813097**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 10W30 (--- GAL)**

**RECOMMENDATION**

Nous vous recommandons de vérifier le filtre à air, le système d'induction d'air et tout endroit où la saleté peut entrer dans le composant. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0081344</b>	---	---
Sample Date		Client Info		<b>17 Jul 2023</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>600</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

**WEAR**

Usure de la soupape d'échappement. Nous avons supposé que ce composant n'est pas en rodage (âge du composant non indiqué).

Iron	ppm	ASTM D5185(m)	>120	<b>35</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>▲ 6</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>5</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>204</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>3</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

**CONTAMINATION**

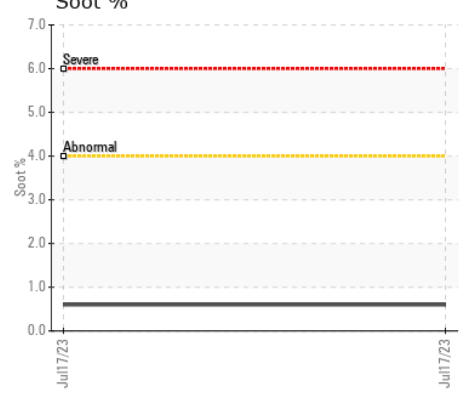
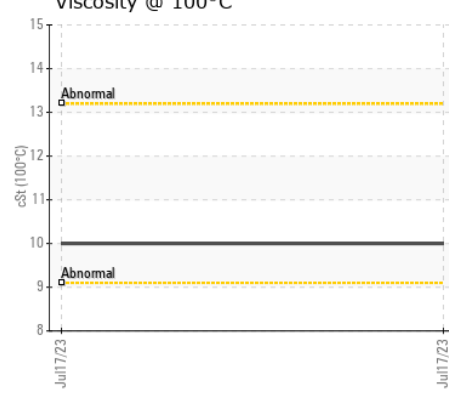
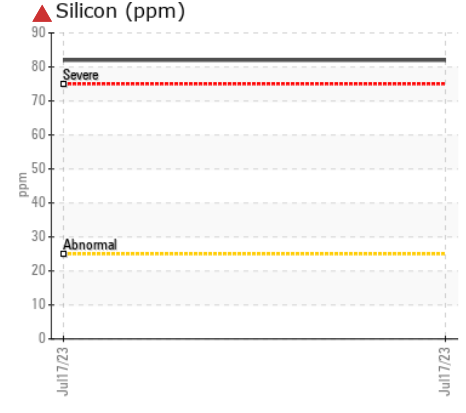
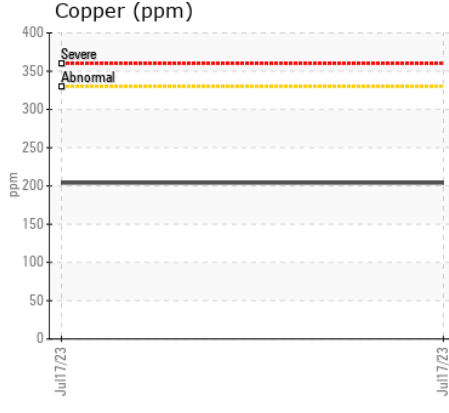
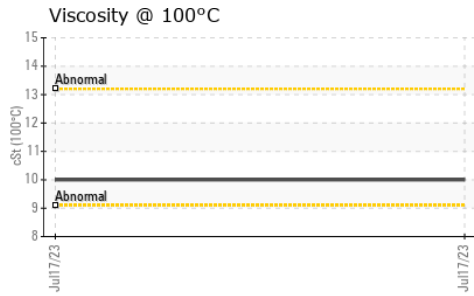
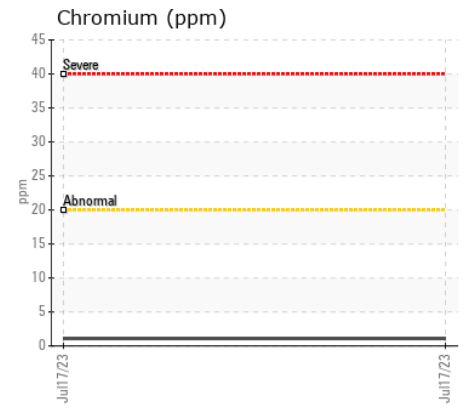
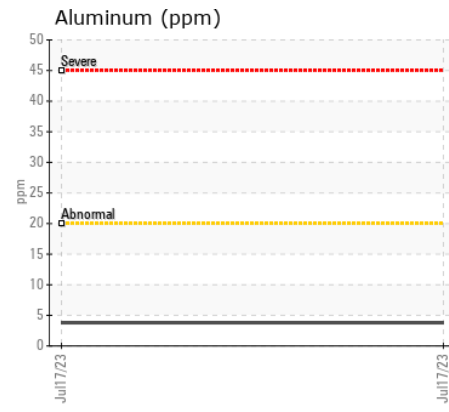
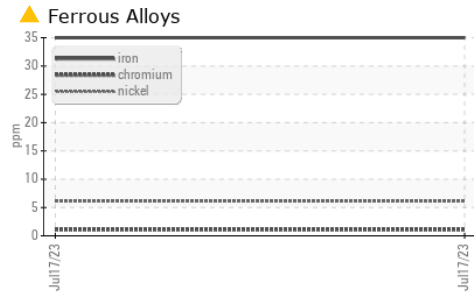
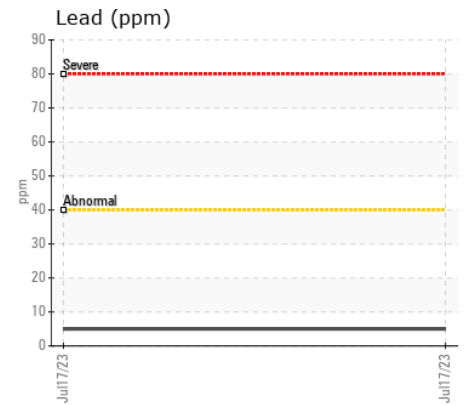
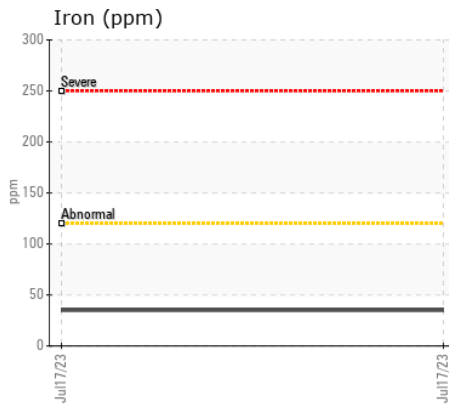
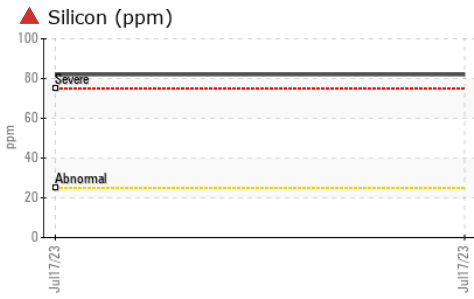
Concentration élevée de saleté dans l'huile. Une grande quantité de saleté a provoqué une usure abrasive du composant.

Silicon	ppm	ASTM D5185(m)	>25	<b>▲ 82</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	---	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>4	<b>0.6</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.6</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.9</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>4</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>138</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>106</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>5</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>680</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1441</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>686</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>774</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>1809</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.4</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>10.0</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0081344  
**Lab Number** : 02571103  
**Unique Number** : 5616154  
**Test Package** : MOB 1  
**Received** : 20 Jul 2023  
**Tested** : 20 Jul 2023  
**Diagnosed** : 21 Jul 2023 - Kevin Marson

**GFL Environmental - 736 - Trois-Rivieres**  
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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.