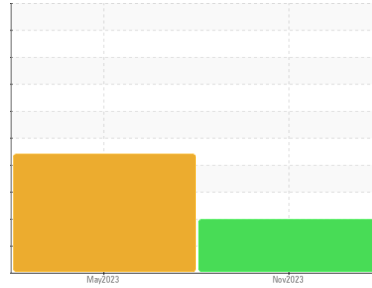




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**713063**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX MV 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

Nous vous recommandons de remplacer le filtre et d'utiliser un système de filtrage hors-ligne afin d'améliorer la propreté du fluide. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Il y a une quantité modérée de matières particulaires (2 à 100 µm de taille) présente dans l'huile.

### Fluid Condition

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0097092</b>	GFL0062125	---
Sample Date	Client Info	<b>08 Nov 2023</b>	26 May 2023	---
Machine Age	kms Client Info	<b>24739</b>	11031	---
Oil Age	kms Client Info	<b>0</b>	0	---
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	---
Sample Status		<b>ABNORMAL</b>	SEVERE	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>50	<b>4</b>	4	---
Chromium ppm ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel ppm ASTM D5185(m)	>4	<b>&lt;1</b>	0	---
Titanium ppm ASTM D5185(m)		<b>0</b>	<1	---
Silver ppm ASTM D5185(m)		<b>&lt;1</b>	0	---
Aluminum ppm ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Lead ppm ASTM D5185(m)	>4	<b>0</b>	0	---
Copper ppm ASTM D5185(m)	>15	<b>&lt;1</b>	0	---
Tin ppm ASTM D5185(m)	>4	<b>0</b>	0	---
Antimony ppm ASTM D5185(m)		<b>0</b>	<1	---
Vanadium ppm ASTM D5185(m)		<b>0</b>	0	---
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)	0	<b>1</b>	1	---
Barium ppm ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Molybdenum ppm ASTM D5185(m)	0	<b>0</b>	0	---
Manganese ppm ASTM D5185(m)	1	<b>0</b>	0	---
Magnesium ppm ASTM D5185(m)	0	<b>2</b>	2	---
Calcium ppm ASTM D5185(m)	50	<b>533</b>	642	---
Phosphorus ppm ASTM D5185(m)	330	<b>195</b>	201	---
Zinc ppm ASTM D5185(m)	430	<b>65</b>	27	---
Sulfur ppm ASTM D5185(m)	760	<b>973</b>	1078	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

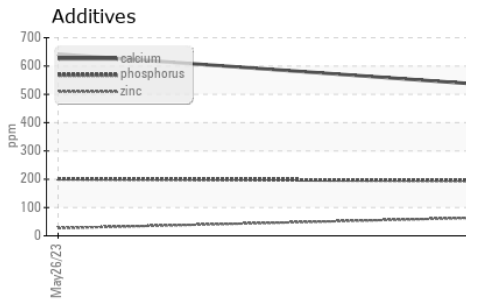
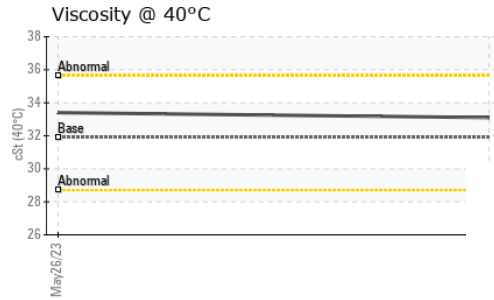
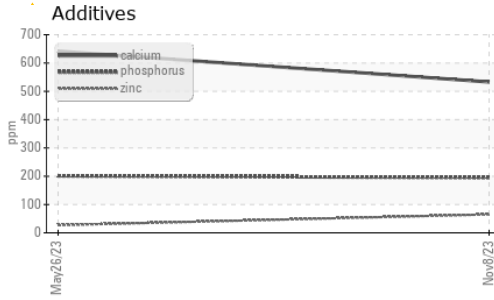
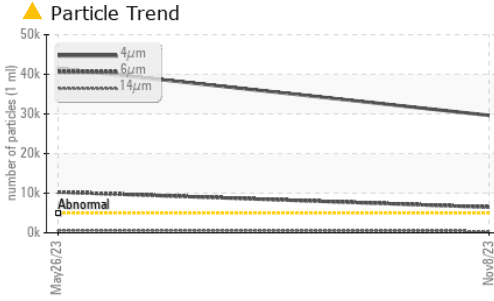
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
Sodium ppm ASTM D5185(m)		<b>4</b>	4	---
Potassium ppm ASTM D5185(m)	>20	<b>&lt;1</b>	0	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>▲ 29635</b>	◆ 41493	---
Particles >6µm ASTM D7647	>1300	<b>▲ 6472</b>	◆ 10293	---
Particles >14µm ASTM D7647	>160	<b>▲ 434</b>	▲ 581	---
Particles >21µm ASTM D7647	>40	<b>▲ 110</b>	▲ 149	---
Particles >38µm ASTM D7647	>10	<b>9</b>	4	---
Particles >71µm ASTM D7647	>3	<b>1</b>	1	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>▲ 22/20/16</b>	◆ 23/21/16	---



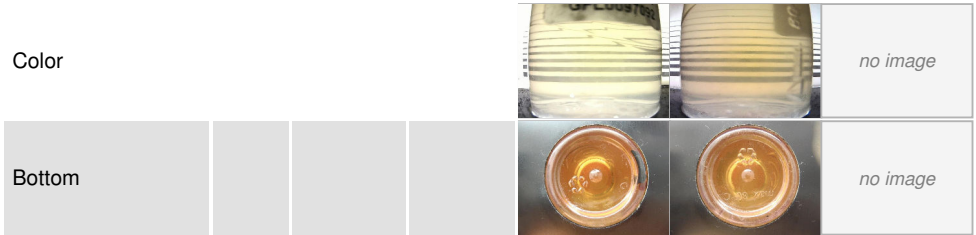
# OIL ANALYSIS REPORT



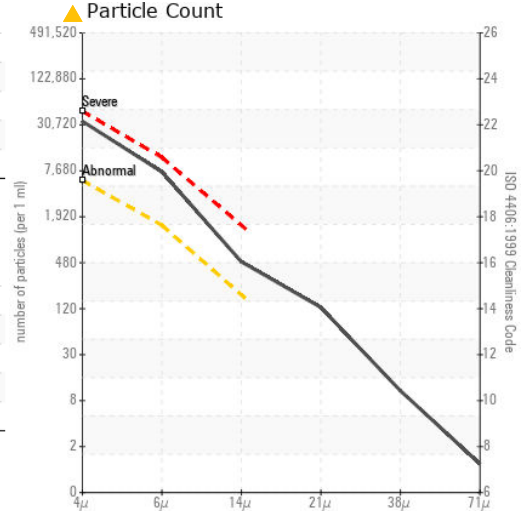
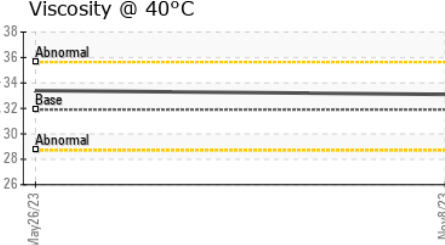
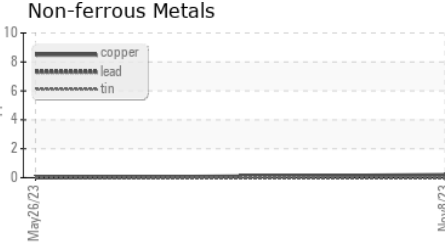
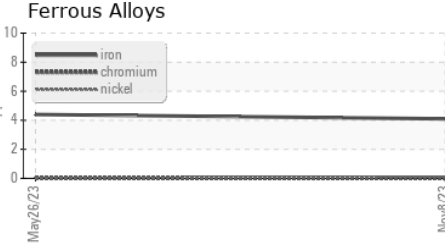
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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)	31.9	33.1	33.4

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste  
**Sample No.** : GFL0097092 **Received** : 10 Nov 2023 4365 boul. St-Elzear Ouest,  
**Lab Number** : 02595628 **Diagnosed** : 13 Nov 2023 Laval, QC  
**Unique Number** : 5672707 **Diagnostician** : Kevin Marson CA H7P 4J3  
**Test Package** : MOB 1 ( Additional Tests: PrtCount ) Contact: Louis Michaud  
 louis.michaud@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.