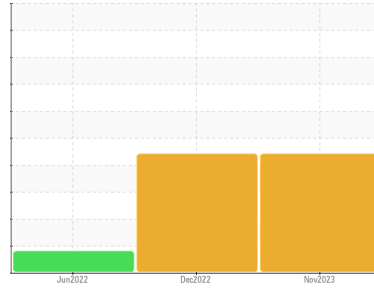




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**901044**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA HYDREX MV 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels des contaminants peuvent pénétrer dans le système. Nous vous recommandons de remplacer le filtre et d'utiliser un système de filtrage hors-ligne afin d'améliorer la propreté du fluide. Le reniflard d'air doit être réparé. Si n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

### Wear

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

### Contamination

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

### Fluid Condition

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>GFL0097110</b>	GFL0061788	GFL0053346
Sample Date	Client Info	<b>01 Nov 2023</b>	06 Dec 2022	13 Jun 2022
Machine Age	hrs	<b>13980</b>	259807	0
Oil Age	hrs	<b>1200</b>	11820	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>SEVERE</b>	SEVERE	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	<b>43</b>	42	▲ 54
Chromium	ppm ASTM D5185(m) >10	<b>5</b>	6	6
Nickel	ppm ASTM D5185(m) >4	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >5	<b>4</b>	3	3
Lead	ppm ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185(m) >15	<b>1</b>	<1	1
Tin	ppm ASTM D5185(m) >4	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	<1
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 0	<b>2</b>	2	3
Calcium	ppm ASTM D5185(m) 50	<b>76</b>	72	73
Phosphorus	ppm ASTM D5185(m) 330	<b>364</b>	359	348
Zinc	ppm ASTM D5185(m) 430	<b>459</b>	418	430
Sulfur	ppm ASTM D5185(m) 760	<b>820</b>	795	783
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

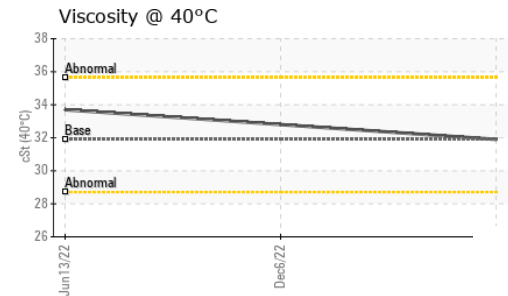
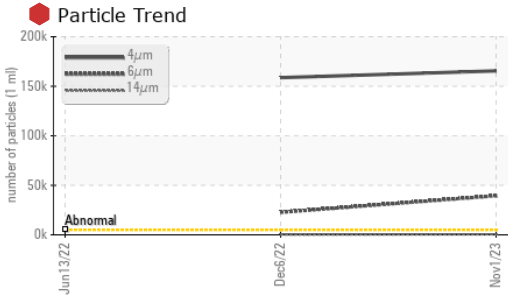
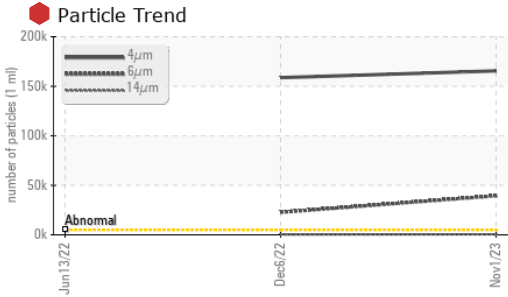
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>9</b>	9	8
Sodium	ppm ASTM D5185(m)	<b>12</b>	16	20
Potassium	ppm ASTM D5185(m) >20	<b>1</b>	2	2

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>165503</b>	158661	---
Particles >6µm	ASTM D7647 >1300	<b>39402</b>	22693	---
Particles >14µm	ASTM D7647 >160	<b>560</b>	330	---
Particles >21µm	ASTM D7647 >40	<b>110</b>	66	---
Particles >38µm	ASTM D7647 >10	<b>7</b>	1	---
Particles >71µm	ASTM D7647 >3	<b>2</b>	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>25/22/16</b>	24/22/16	---

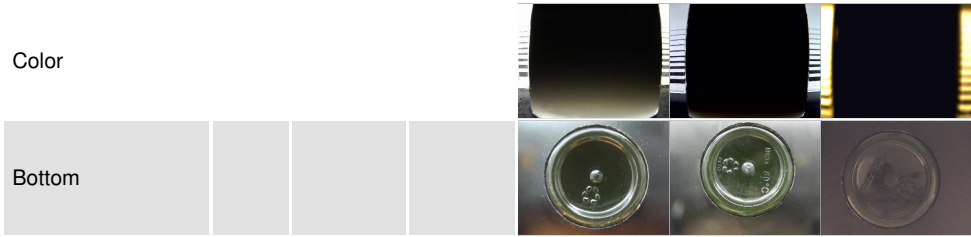
# OIL ANALYSIS REPORT



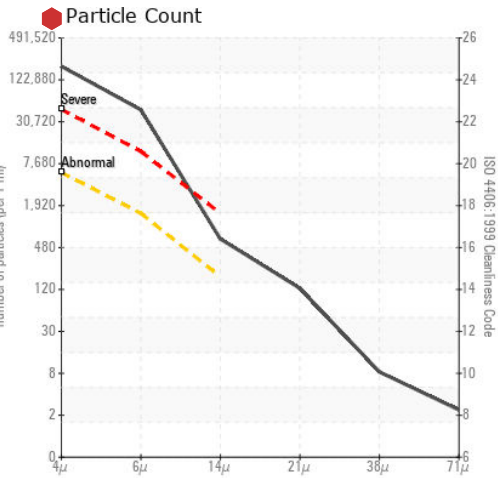
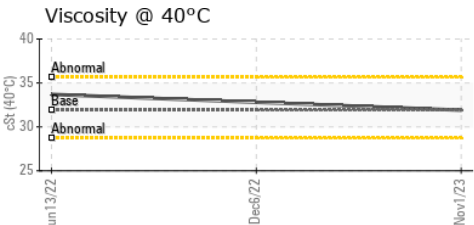
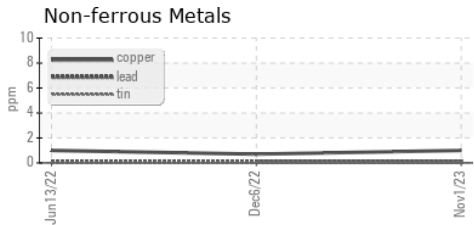
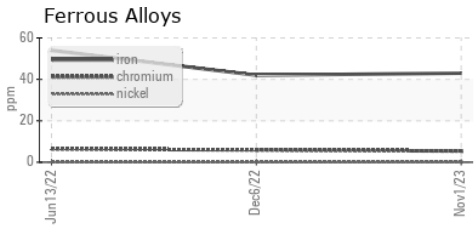
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	32.8	33.7

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.** : GFL0097110 **Received** : 03 Nov 2023  
**Lab Number** : 02593950 **Diagnosed** : 03 Nov 2023  
**Unique Number** : 5671029 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

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.

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