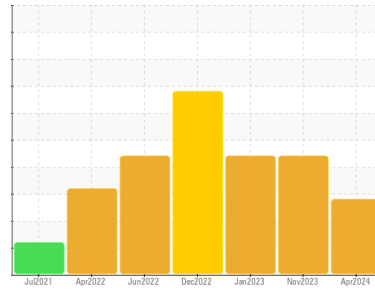




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

**701058**

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. S'il 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>GFL0107550</b>	GFL0096452	GFL0067362
Sample Date	Client Info	<b>18 Apr 2024</b>	03 Nov 2023	09 Jan 2023
Machine Age	hrs	<b>15059</b>	14134	12573
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>SEVERE</b>	SEVERE	SEVERE

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >40	<b>6</b>	10	11
Chromium	ppm ASTM D5185(m) >5	<b>1</b>	2	2
Nickel	ppm ASTM D5185(m) >2	<b>0</b>	<1	0
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185(m) >8	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185(m) >5	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m) >2	<b>0</b>	0	<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>0</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>0</b>	<1	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 0	<b>4</b>	10	<1
Calcium	ppm ASTM D5185(m) 50	<b>71</b>	64	54
Phosphorus	ppm ASTM D5185(m) 330	<b>354</b>	337	363
Zinc	ppm ASTM D5185(m) 430	<b>442</b>	434	418
Sulfur	ppm ASTM D5185(m) 760	<b>787</b>	767	797
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

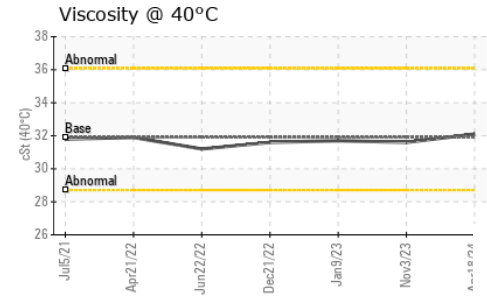
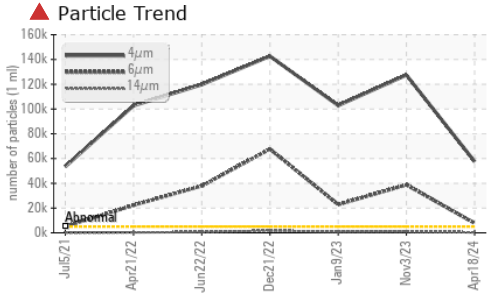
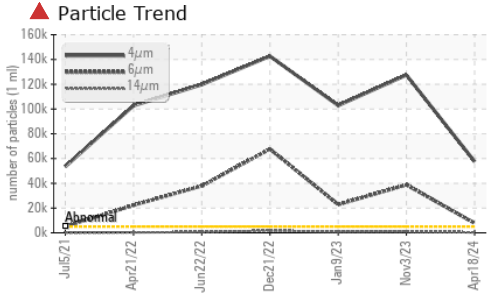
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>&lt;1</b>	3	3
Sodium	ppm ASTM D5185(m)	<b>3</b>	2	2
Potassium	ppm ASTM D5185(m) >20	<b>1</b>	<1	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 57604</b>	▲ 127426	▲ 102781
Particles >6µm	ASTM D7647 >1300	<b>▲ 7786</b>	▲ 38794	▲ 22847
Particles >14µm	ASTM D7647 >160	<b>▲ 357</b>	▲ 1047	▲ 918
Particles >21µm	ASTM D7647 >40	<b>▲ 103</b>	▲ 150	▲ 275
Particles >38µm	ASTM D7647 >10	<b>12</b>	4	13
Particles >71µm	ASTM D7647 >3	<b>1</b>	1	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 23/20/16</b>	▲ 24/22/17	▲ 24/22/17



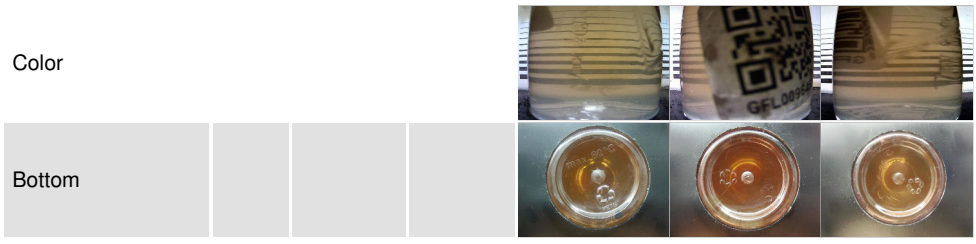
# OIL ANALYSIS REPORT



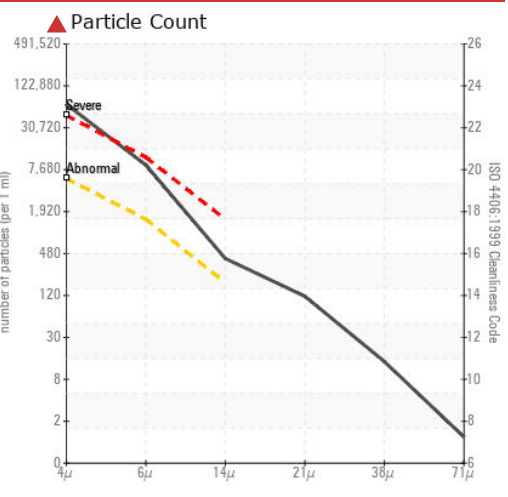
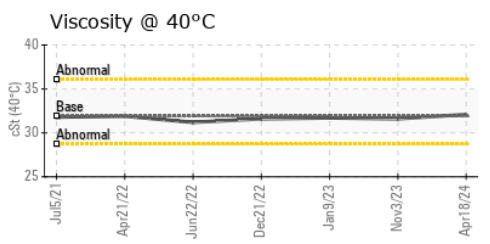
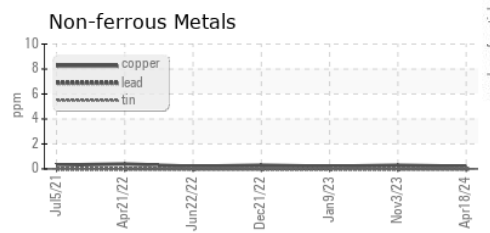
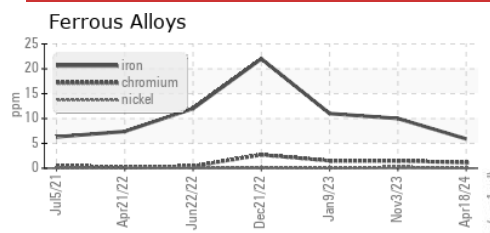
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	<b>32.1</b>	31.6	31.7

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 - 747 - GMA - Solid Waste**  
**Sample No.** : GFL0107550    **Received** : 06 May 2024    4 Chemin du Tremblay,  
**Lab Number** : **02633526**    **Tested** : 07 May 2024    Boucherville, QC  
**Unique Number** : 5774679    **Diagnosed** : 07 May 2024 - Wes Davis    CA J4B 6Z5  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )    Contact: Steve Voyer  
svoyer@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.