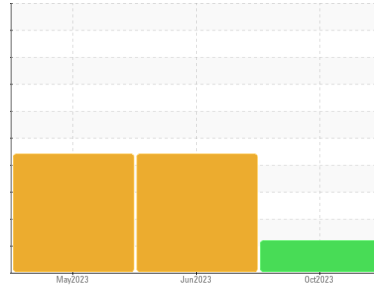




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**401161**

Component  
**Hydraulic System**

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

## DIAGNOSIS

### Recommendation

Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. 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 particules (de 4 à 14 microns) 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>GFL0097114</b>	GFL0073436	GFL0062041
Sample Date	Client Info	<b>30 Oct 2023</b>	19 Jun 2023	11 May 2023
Machine Age	kms	Client Info	8526	206866
Oil Age	kms	Client Info	1200	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>ABNORMAL</b>	SEVERE	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>50	<b>16</b>	14	15
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
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>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)		<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>2</b>	1	1
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>4</b>	3	4
Calcium	ppm	ASTM D5185(m)	50	<b>178</b>	168	182
Phosphorus	ppm	ASTM D5185(m)	330	<b>341</b>	330	342
Zinc	ppm	ASTM D5185(m)	430	<b>404</b>	370	363
Sulfur	ppm	ASTM D5185(m)	760	<b>859</b>	795	836
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

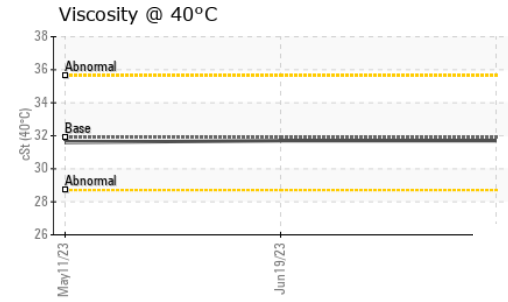
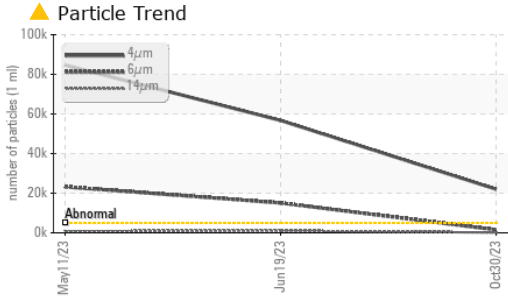
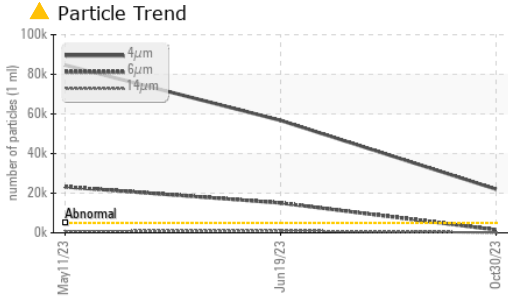
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>15	<b>2</b>	2	2
Sodium	ppm	ASTM D5185(m)		<b>5</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	<b>▲ 22008</b>	● 56728	● 84678
Particles >6µm	ASTM D7647	>1300	<b>▲ 1516</b>	● 15090	● 23226
Particles >14µm	ASTM D7647	>160	<b>110</b>	▲ 1073	▲ 797
Particles >21µm	ASTM D7647	>40	<b>29</b>	▲ 241	▲ 174
Particles >38µm	ASTM D7647	>10	<b>3</b>	4	5
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 22/18/14</b>	● 23/21/17	● 24/22/17



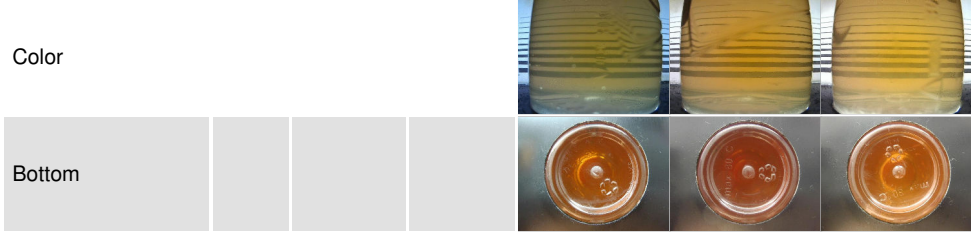
# OIL ANALYSIS REPORT



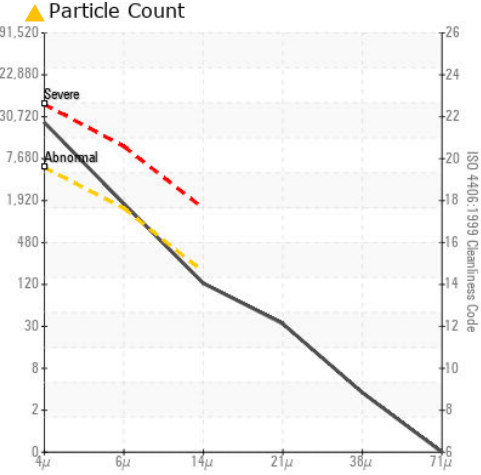
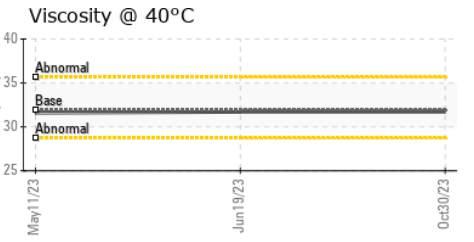
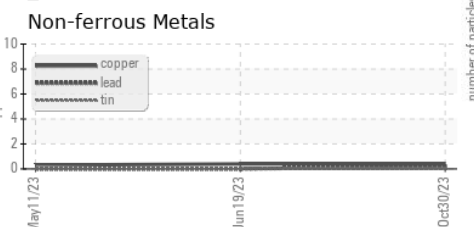
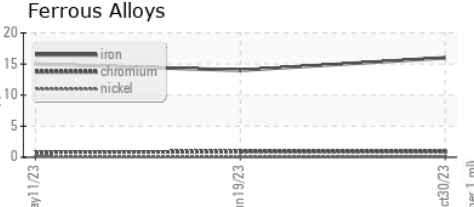
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste  
**Sample No.** : GFL0097114 **Received** : 03 Nov 2023  
**Lab Number** : 02593939 **Diagnosed** : 03 Nov 2023  
**Unique Number** : 5671018 **Diagnostician** : Wes Davis  
**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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