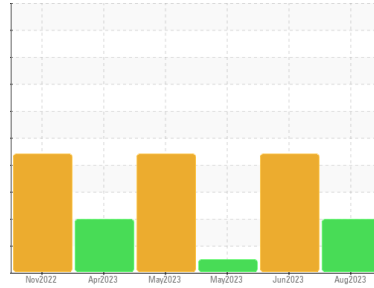




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**7214**

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. 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

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>GFL0088803</b>	GFL0047514	GFL0084368
Sample Date	Client Info	<b>25 Aug 2023</b>	18 Jun 2023	30 May 2023
Machine Age	kms Client Info	<b>0</b>	316682	2556
Oil Age	kms Client Info	<b>12000</b>	0	0
Oil Changed	Client Info	<b>Not Chngd</b>	N/A	Not Chngd
Sample Status		<b>ABNORMAL</b>	SEVERE	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>8</b>	9	10
Chromium	ppm ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	<1	0
Silver	ppm ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185(m) >10	<b>&lt;1</b>	0	<1
Copper	ppm ASTM D5185(m) >75	<b>1</b>	1	1
Tin	ppm ASTM D5185(m) >10	<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>1</b>	2	2
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>1</b>	1	1
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 0	<b>18</b>	22	23
Calcium	ppm ASTM D5185(m) 50	<b>86</b>	100	103
Phosphorus	ppm ASTM D5185(m) 330	<b>378</b>	377	383
Zinc	ppm ASTM D5185(m) 430	<b>435</b>	432	431
Sulfur	ppm ASTM D5185(m) 760	<b>809</b>	856	854
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

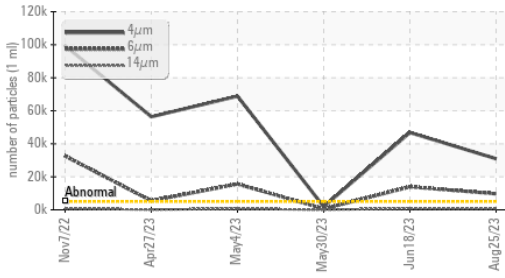
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>3</b>	3	3
Sodium	ppm ASTM D5185(m)	<b>3</b>	4	4
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	2	<1

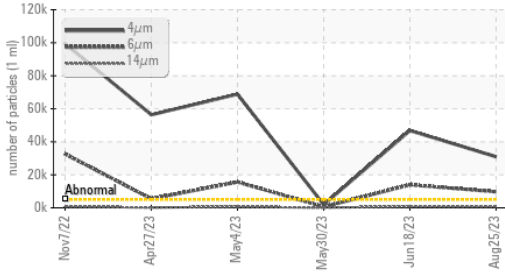
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 30950</b>	◆ 46806	1910
Particles >6µm	ASTM D7647 >1300	<b>▲ 9687</b>	◆ 13946	586
Particles >14µm	ASTM D7647 >160	<b>▲ 757</b>	▲ 760	45
Particles >21µm	ASTM D7647 >40	<b>▲ 189</b>	▲ 144	13
Particles >38µm	ASTM D7647 >10	<b>4</b>	3	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 22/20/17</b>	◆ 23/21/17	18/16/13

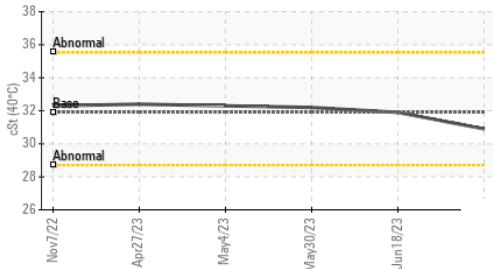
### ▲ Particle Trend



### ▲ Particle Trend



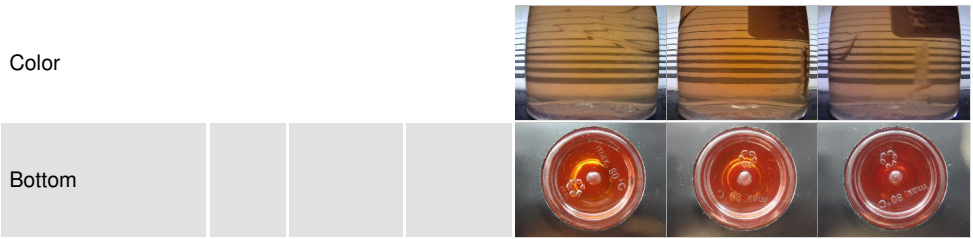
### Viscosity @ 40°C



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

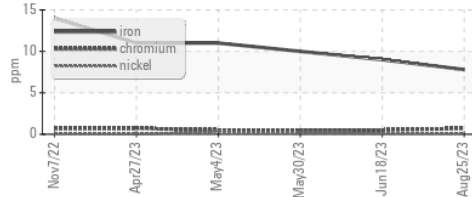
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	30.9	31.9

### SAMPLE IMAGES

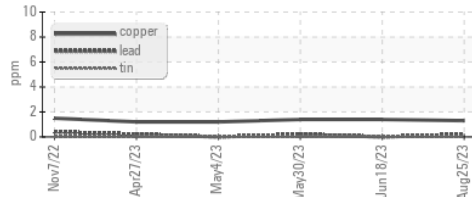


### GRAPHS

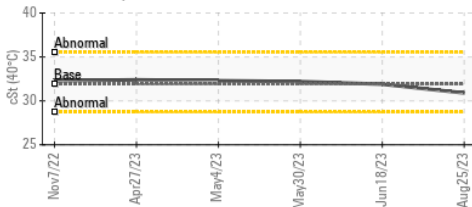
#### Ferrous Alloys



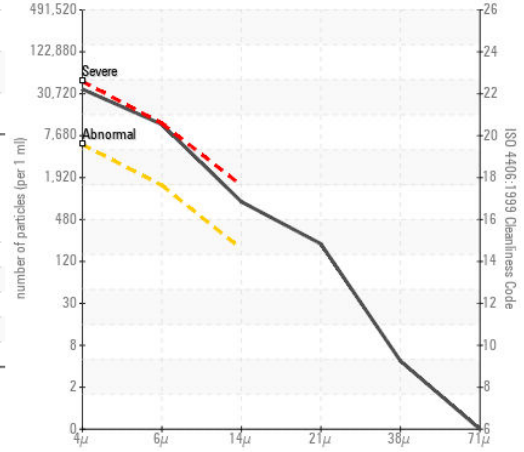
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### ▲ Particle Count



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste  
**Sample No.** : GFL0088803 **Received** : 05 Sep 2023  
**Lab Number** : 02580399 **Diagnosed** : 06 Sep 2023  
**Unique Number** : 5633459 **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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