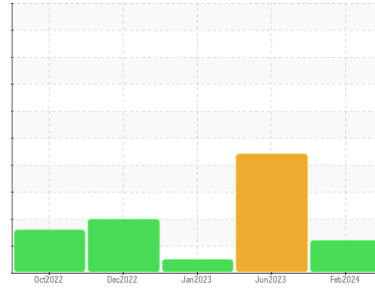




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**701090**

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>GFL0096387</b>	GFL0087689	GFL0067363
Sample Date	Client Info	<b>29 Feb 2024</b>	20 Jun 2023	09 Jan 2023
Machine Age	hrs	<b>216043</b>	183405	9973
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>ABNORMAL</b>	SEVERE	NORMAL

## 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>	9	5
Chromium	ppm ASTM D5185(m) >5	<b>2</b>	4	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>	0	0
Aluminum	ppm ASTM D5185(m) >8	<b>1</b>	1	<1
Lead	ppm ASTM D5185(m) >5	<b>&lt;1</b>	0	<1
Copper	ppm ASTM D5185(m) >20	<b>2</b>	1	1
Tin	ppm ASTM D5185(m) >2	<b>&lt;1</b>	<1	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>&lt;1</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	<1	0
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 0	<b>8</b>	7	2
Calcium	ppm ASTM D5185(m) 50	<b>75</b>	66	56
Phosphorus	ppm ASTM D5185(m) 330	<b>351</b>	363	363
Zinc	ppm ASTM D5185(m) 430	<b>438</b>	432	412
Sulfur	ppm ASTM D5185(m) 760	<b>1092</b>	786	791
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

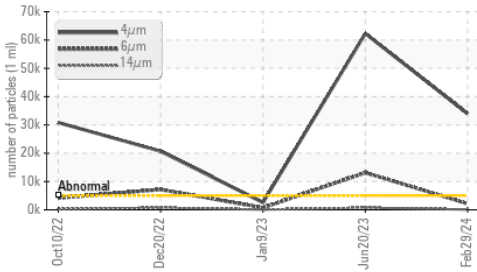
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>1</b>	4	1
Sodium	ppm ASTM D5185(m)	<b>3</b>	7	4
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	2	1

## FLUID CLEANLINESS

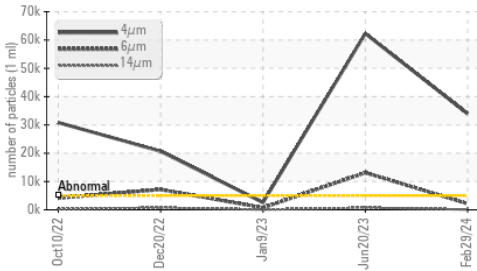
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 33968</b>	▲ 62268	2570
Particles >6µm	ASTM D7647 >1300	<b>● 2171</b>	▲ 13119	729
Particles >14µm	ASTM D7647 >160	<b>78</b>	▲ 734	60
Particles >21µm	ASTM D7647 >40	<b>18</b>	▲ 151	18
Particles >38µm	ASTM D7647 >10	<b>1</b>	3	2
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 22/18/13</b>	▲ 23/21/17	19/17/13

# OIL ANALYSIS REPORT

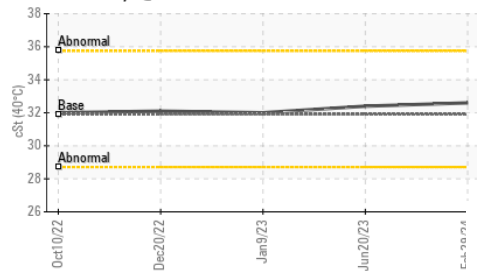
▲ Particle Trend



▲ Particle Trend



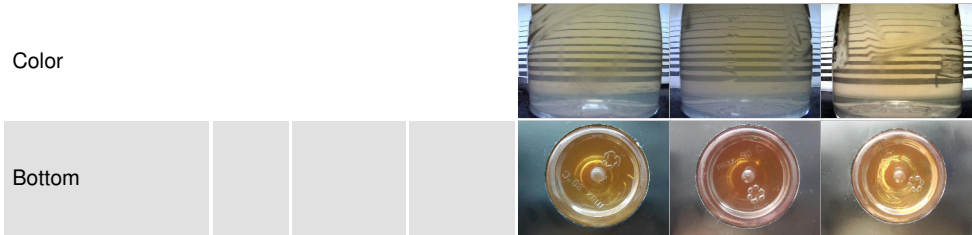
Viscosity @ 40°C



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	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

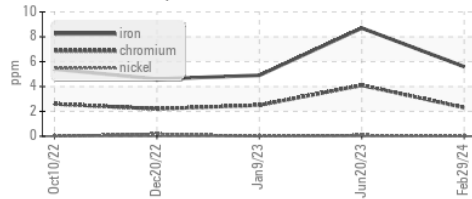
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	32.6	32.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

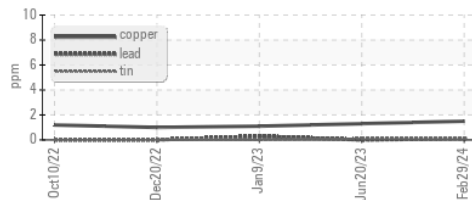


## GRAPHS

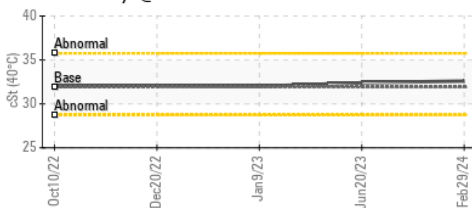
Ferrous Alloys



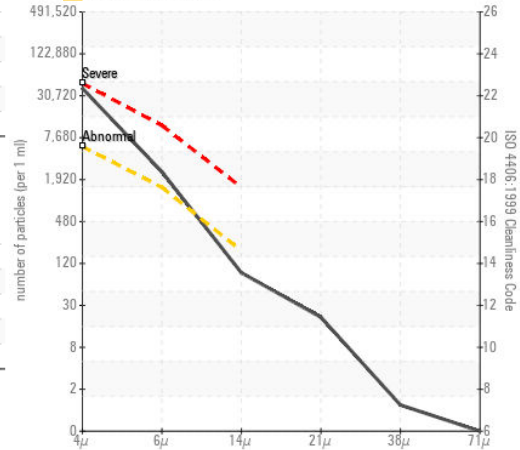
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0096387  
**Lab Number** : 02619726  
**Unique Number** : 5736836  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

**GFL Environmental - 747 - GMA - Solid Waste**  
 4 Chemin du Tremblay,  
 Boucherville, QC  
 CA J4B 6Z5  
 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.