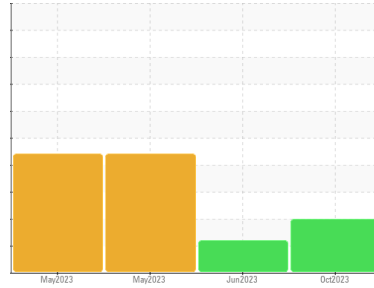




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**713068**

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>GFL0088868</b>	GFL0073431	GFL0084470
Sample Date	Client Info	<b>27 Oct 2023</b>	15 Jun 2023	29 May 2023
Machine Age	hrs	Client Info	0	21468
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>ABNORMAL</b>	ABNORMAL	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	8	8
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >75	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	0
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>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>97</b>	8	8
Calcium	ppm	ASTM D5185(m) 50	<b>75</b>	536	536
Phosphorus	ppm	ASTM D5185(m) 330	<b>296</b>	234	242
Zinc	ppm	ASTM D5185(m) 430	<b>374</b>	100	100
Sulfur	ppm	ASTM D5185(m) 760	<b>736</b>	1084	1078
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

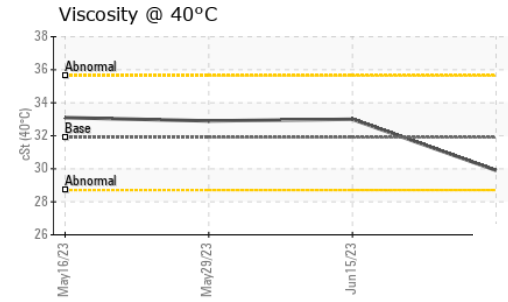
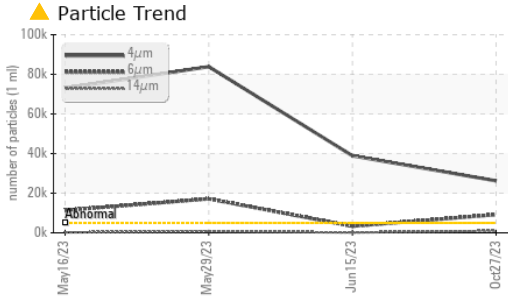
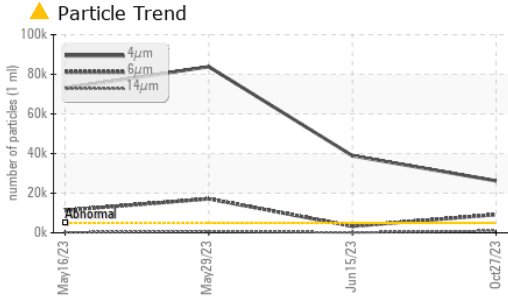
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	<1
Sodium	ppm	ASTM D5185(m)	<b>2</b>	6	6
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	2	1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 26235</b>	▲ 38893	● 83861
Particles >6µm	ASTM D7647 >1300	<b>▲ 9196</b>	▲ 3329	● 17152
Particles >14µm	ASTM D7647 >160	<b>▲ 989</b>	132	▲ 752
Particles >21µm	ASTM D7647 >40	<b>▲ 257</b>	29	▲ 168
Particles >38µm	ASTM D7647 >10	<b>11</b>	1	4
Particles >71µm	ASTM D7647 >3	<b>1</b>	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 22/20/17</b>	▲ 22/19/14	● 24/21/17



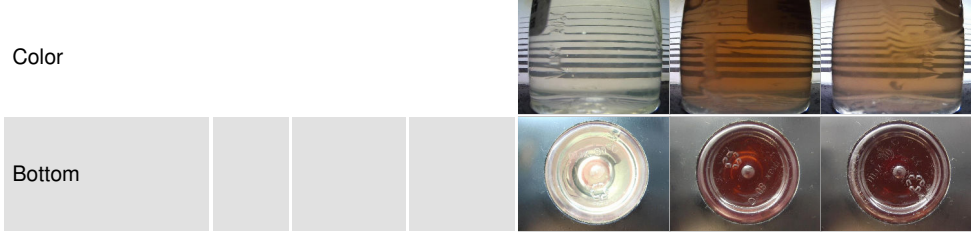
# OIL ANALYSIS REPORT



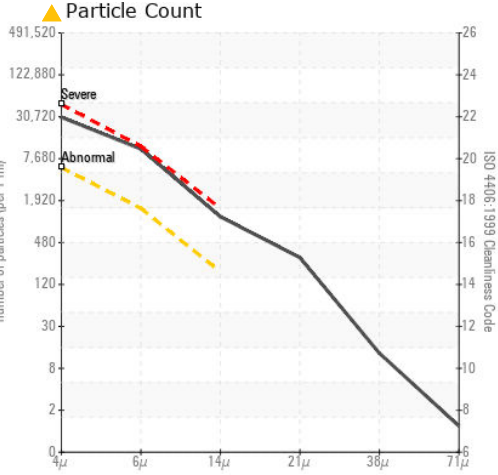
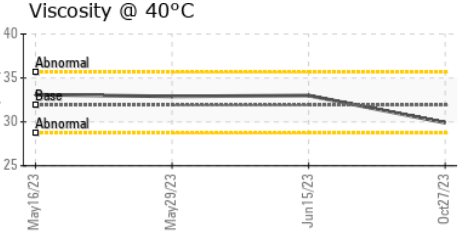
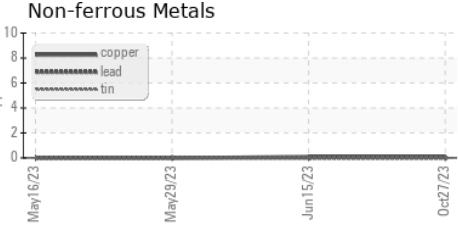
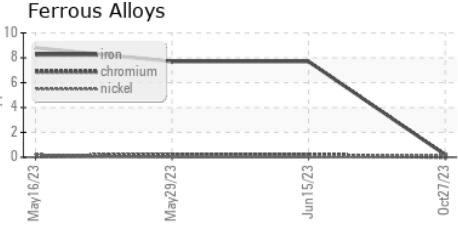
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE
Appearance	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	29.9	33.0	32.9

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste  
**Sample No.** : GFL0088868 **Received** : 03 Nov 2023 4365 boul. St-Elzear Ouest,  
**Lab Number** : 02593940 **Diagnosed** : 03 Nov 2023 Laval, QC  
**Unique Number** : 5671019 **Diagnostician** : Wes Davis CA H7P 4J3  
**Test Package** : MOB 1 ( Additional Tests: PrtCount ) Contact: Pieces Laval  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. pieces.laval@gflenv.com  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (450)687-3838  
 Validity of results and interpretation are based on the sample and information as supplied. F: