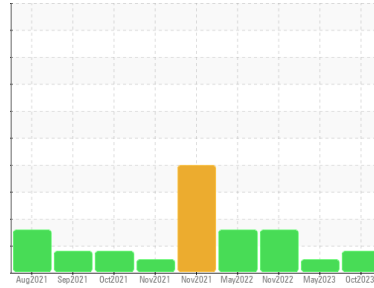




# OIL ANALYSIS REPORT

## Sample Rating Trend

**WEAR**



Machine Id  
**9215**  
Component  
**Transmission (Auto)**  
Fluid  
**PETRO CANADA DURADRIVE HD SYNTHETIC ATF (--- GAL)**

## DIAGNOSIS

### Recommendation

Nous vous recommandons de vidanger le fluide de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Le taux de fer est anormal. Usure des engrenages. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

### Contamination

Il n'y a aucun indice de contamination dans le fluide.

### Fluid Condition

le fluide n'est plus en état de service en raison d'une usure anormale et/ou sévère.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0096432</b>	GFL0079497	GFL0061836
Sample Date	Client Info	<b>20 Oct 2023</b>	11 May 2023	16 Nov 2022
Machine Age	kms Client Info	<b>455722</b>	419015	377825
Oil Age	kms Client Info	<b>0</b>	0	1200
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Not Changd
Sample Status		<b>ABNORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184* >105	<b>14</b>	---	---
Iron	ppm ASTM D5185(m) >230	<b>▲ 268</b>	218	144
Chromium	ppm ASTM D5185(m) >2	<b>&lt;1</b>	<1	0
Nickel	ppm ASTM D5185(m) >5	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	<1	<1
Silver	ppm ASTM D5185(m) >5	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >65	<b>41</b>	38	27
Lead	ppm ASTM D5185(m) >55	<b>46</b>	35	23
Copper	ppm ASTM D5185(m) >85	<b>39</b>	33	26
Tin	ppm ASTM D5185(m) >5	<b>3</b>	3	2
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	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)	<b>102</b>	102	95
Barium	ppm ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	8
Manganese	ppm ASTM D5185(m)	<b>1</b>	2	1
Magnesium	ppm ASTM D5185(m)	<b>1</b>	1	<b>▲ 117</b>
Calcium	ppm ASTM D5185(m)	<b>146</b>	147	<b>▲ 277</b>
Phosphorus	ppm ASTM D5185(m)	<b>288</b>	313	406
Zinc	ppm ASTM D5185(m)	<b>8</b>	7	<b>▲ 152</b>
Sulfur	ppm ASTM D5185(m)	<b>1857</b>	1881	<b>▲ 1953</b>
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>14</b>	12	11
Sodium	ppm ASTM D5185(m)	<b>8</b>	7	6
Potassium	ppm ASTM D5185(m) >20	<b>2</b>	1	2

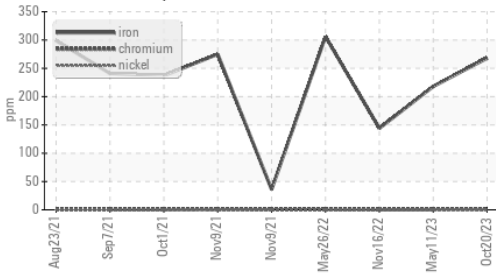
## VISUAL

method	limit/base	current	history1	history2
White Metal	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Debris	scalar Visual* NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar Visual* NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual* NORML	<b>NORML</b>	NORML	NORML
Odor	scalar Visual* NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar Visual* >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar Visual*	<b>NEG</b>	NEG	NEG

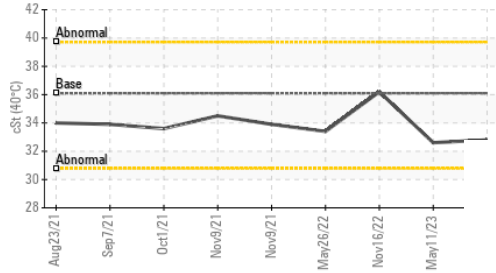


# OIL ANALYSIS REPORT

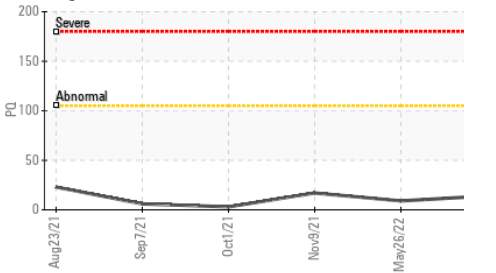
### ▲ Ferrous Alloys



### Viscosity @ 40°C



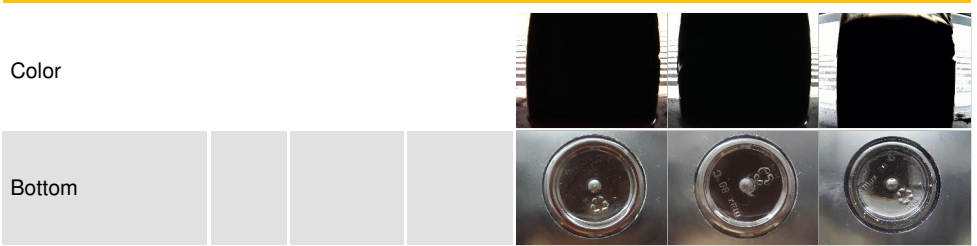
### PQ



### FLUID PROPERTIES

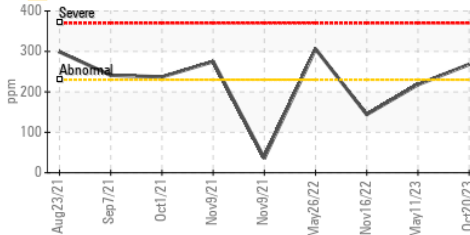
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D7279(m)	36.1	32.8	32.6	36.2

### SAMPLE IMAGES

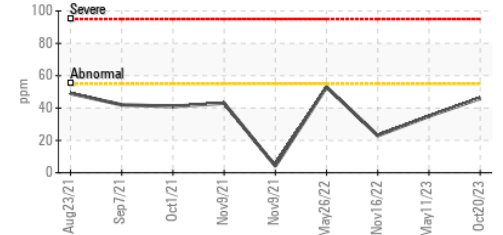


### GRAPHS

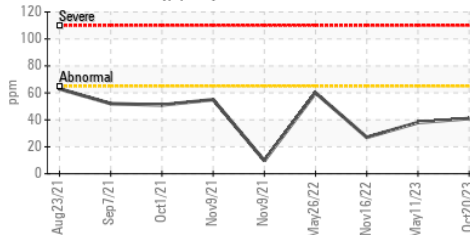
#### ▲ Iron (ppm)



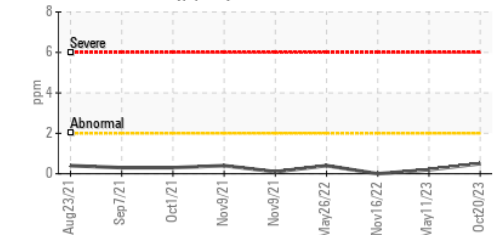
#### Lead (ppm)



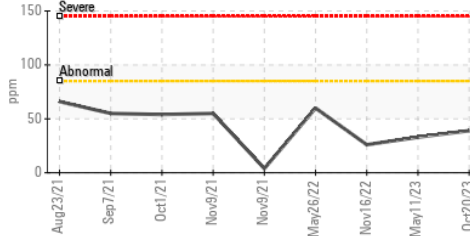
#### Aluminum (ppm)



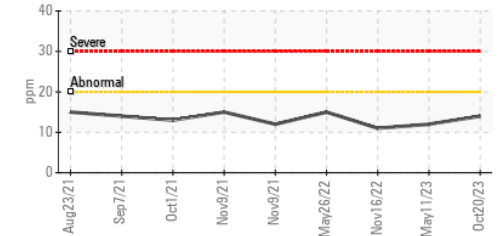
#### Chromium (ppm)



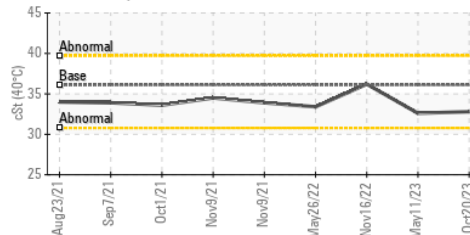
#### Copper (ppm)



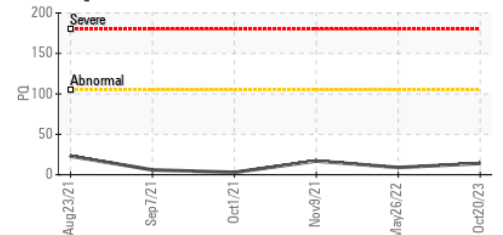
#### Silicon (ppm)



#### Viscosity @ 40°C



#### PQ



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 747 - GMA - Solid Waste  
**Sample No.** : GFL0096432 **Received** : 24 Oct 2023  
**Lab Number** : 02591485 **Diagnosed** : 26 Oct 2023  
**Unique Number** : 5668564 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PQ )

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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