



Machine Id  
**123001**  
Component  
**1 Differential**  
Fluid  
**PETRO CANADA HYDREX AW 32 (--- GAL)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113134</b>	---	---
Sample Date		Client Info		<b>19 Jun 2024</b>	---	---
Machine Age	kms	Client Info		<b>512236</b>	---	---
Oil Age	kms	Client Info		<b>0</b>	---	---
Filter Age	kms	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1200	<b>116</b>	---	---
Chromium	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	---	---
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

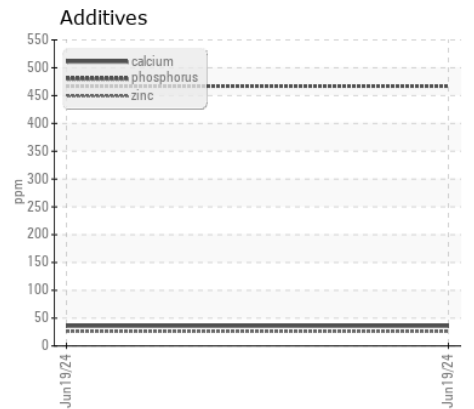
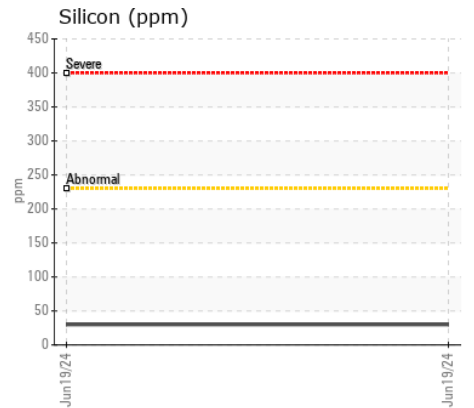
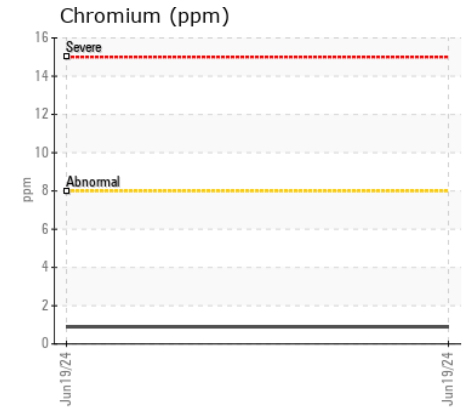
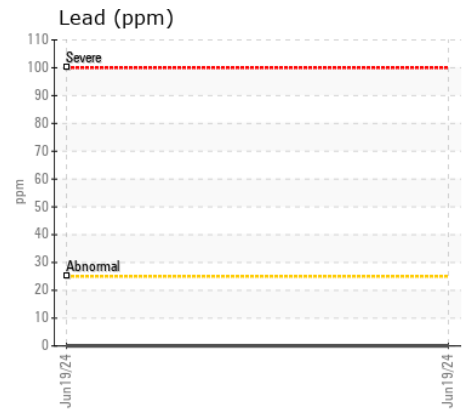
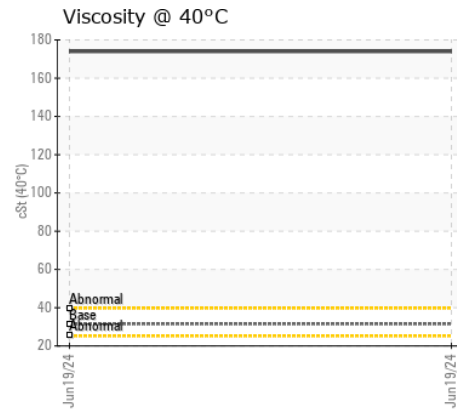
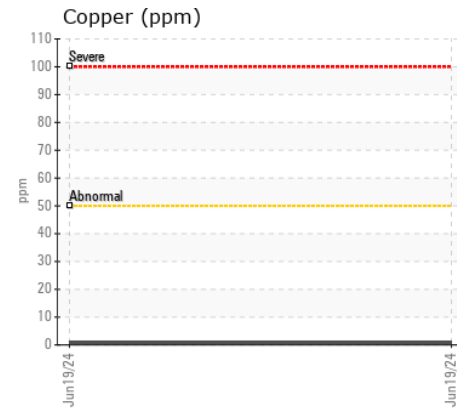
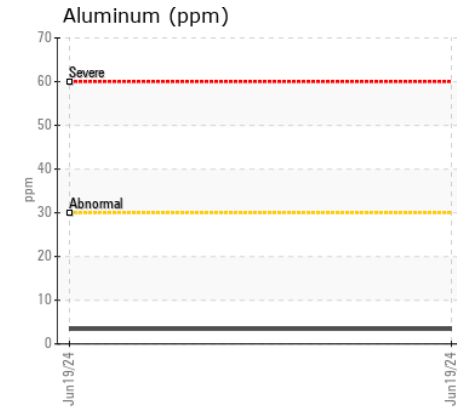
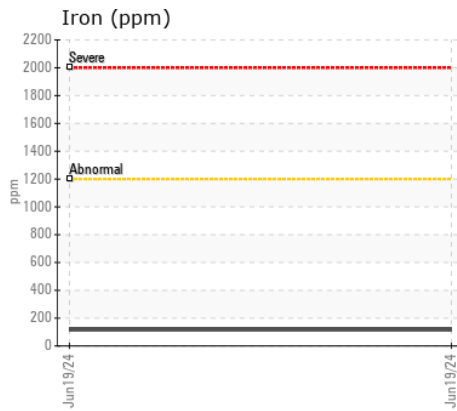
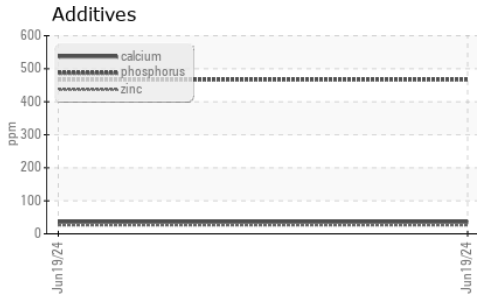
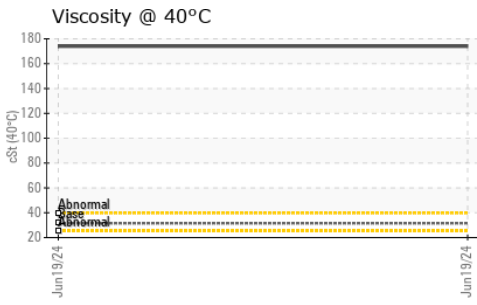
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>230	<b>30</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>432</b>	---	---
Water		WC Method	>.2	<b>NEG</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	---	---

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>6</b>	---	---
Boron	ppm	ASTM D5185(m)	0	<b>507</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	0	<b>2</b>	---	---
Calcium	ppm	ASTM D5185(m)	50	<b>36</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	330	<b>467</b>	---	---
Zinc	ppm	ASTM D5185(m)	430	<b>26</b>	---	---
Sulfur	ppm	ASTM D5185(m)	760	<b>13008</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	<b>174</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113134  
**Lab Number** : 02644636  
**Unique Number** : 5802175  
**Test Package** : MOB 1

**GFL Environmental - 582 - Nanaimo**  
 3469 Aqua Terra Rd.,  
 Cassidy, BC  
 CA V0R 1H0  
 Contact: GFL Tech  
 wcgfldemo@gmail.com

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.

T:  
F: