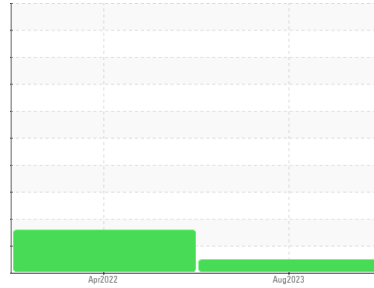




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**801157**

Component  
**Front Hydraulic System**

Fluid  
**PETRO CANADA HYDREX MV 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0084180</b>	GFL0039227	---
Sample Date	Client Info		<b>17 Aug 2023</b>	05 Apr 2022	---
Machine Age	hrs	Client Info	<b>2438</b>	12267	---
Oil Age	hrs	Client Info	<b>1200</b>	1200	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ATTENTION	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	<b>5</b>	4	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Lead	ppm	ASTM D5185(m)	>10	<b>2</b>	<1	---
Copper	ppm	ASTM D5185(m)	>75	<b>12</b>	1	---
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185(m)	50	<b>44</b>	48	---
Phosphorus	ppm	ASTM D5185(m)	330	<b>341</b>	346	---
Zinc	ppm	ASTM D5185(m)	430	<b>392</b>	402	---
Sulfur	ppm	ASTM D5185(m)	760	<b>778</b>	797	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

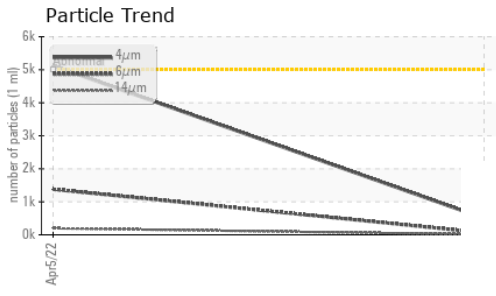
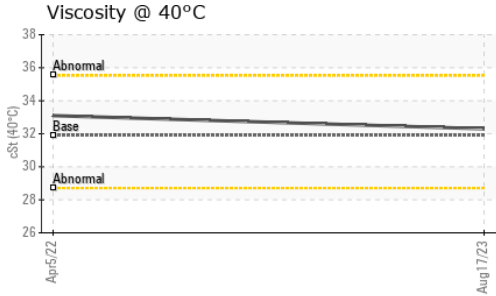
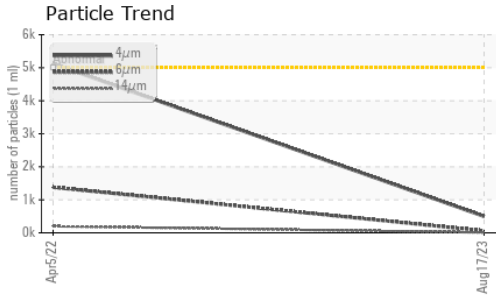
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>2</b>	1	---
Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>497</b>	▲ 5124	---
Particles >6µm	ASTM D7647	>1300	<b>60</b>	▲ 1379	---
Particles >14µm	ASTM D7647	>160	<b>8</b>	▲ 198	---
Particles >21µm	ASTM D7647	>40	<b>3</b>	▲ 62	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	4	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>16/13/10</b>	▲ 20/18/15	---



# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	<b>32.3</b>	33.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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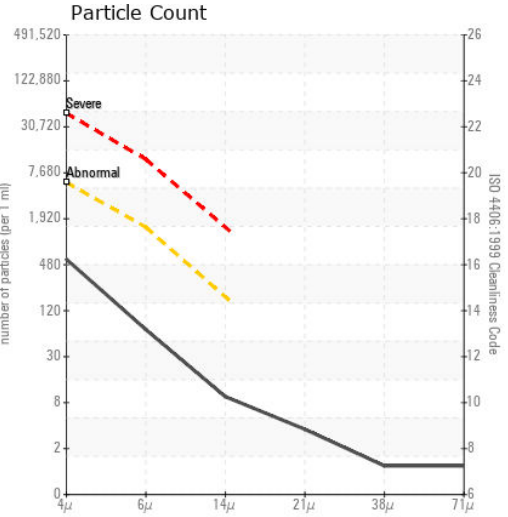
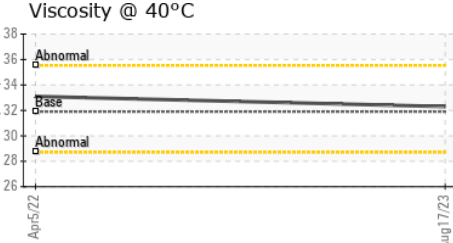
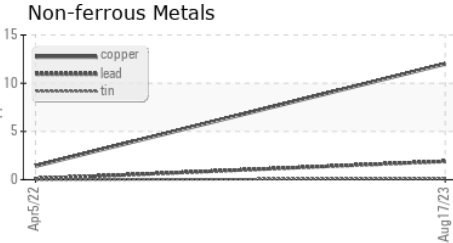
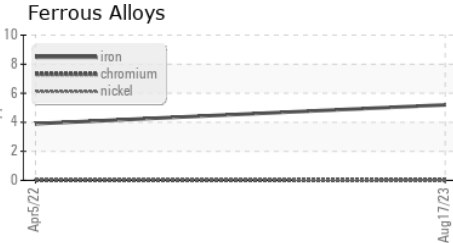
**Color**

*no image*

**Bottom**

*no image*

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 573 - Vancouver Hauling  
**Sample No.** : GFL0084180 **Received** : 08 Sep 2023  
**Lab Number** : 02581172 **Diagnosed** : 11 Sep 2023  
**Unique Number** : 5642237 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

70 Golden Drive,  
Coquitlam, BC  
CA V3K 6B5  
Contact: Catia Klagenberg Alves  
cklagenbergalves@gflenv.com  
T:  
F:

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.