



# OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



Machine Id

**EX0356**

Component

**Hydraulic System**

Fluid

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (160 LTR)

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. ( Customer Sample Comment: Unit contains hytran ultra. )

### 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

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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0113352</b>	---	---
Sample Date	Client Info		<b>22 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>5728</b>	---	---
Oil Age	hrs	Client Info	<b>3000</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >65	<b>21</b>	---	---
Chromium	ppm	ASTM D5185(m) >6	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >5	<b>0</b>	---	---
Lead	ppm	ASTM D5185(m) >45	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m) >120	<b>1</b>	---	---
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>1</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 0	<b>2</b>	---	---
Calcium	ppm	ASTM D5185(m) 100	<b>5</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 670	<b>233</b>	---	---
Zinc	ppm	ASTM D5185(m) 850	<b>143</b>	---	---
Sulfur	ppm	ASTM D5185(m) 1600	<b>5876</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

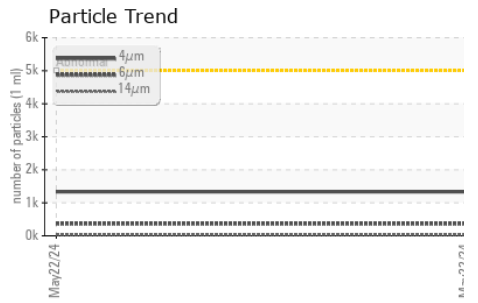
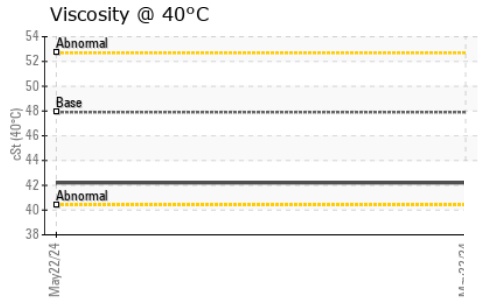
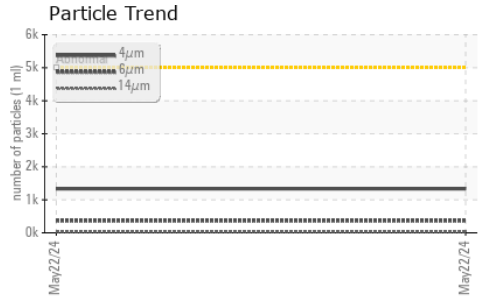
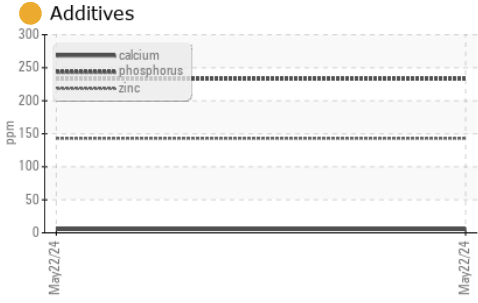
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>0</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>1333</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>368</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>32</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>10</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	---	---



# OIL ANALYSIS REPORT



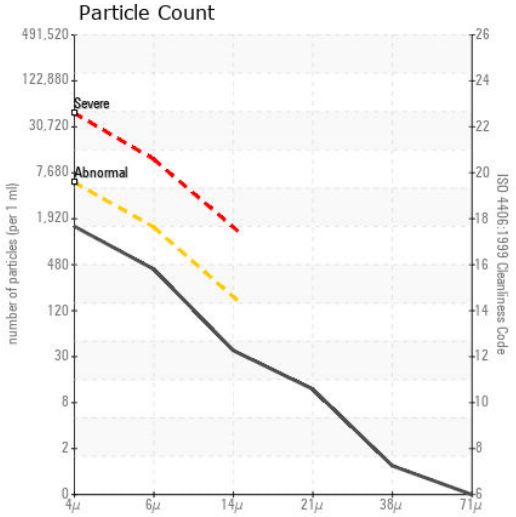
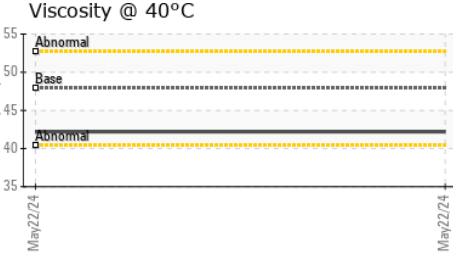
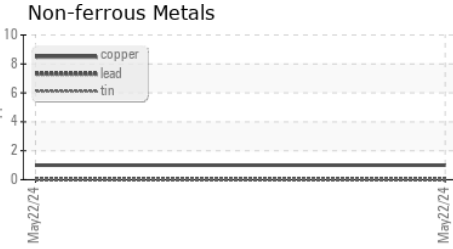
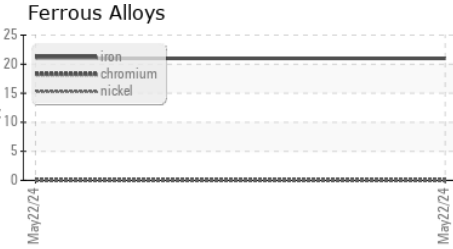
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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)	47.9	42.2	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9    **GFL Environmental - 720 - Lafleche - Landfill**  
**Sample No.** : GFL0113352    **Received** : 23 May 2024    17125 Lafleche Road,  
**Lab Number** : 02637213    **Tested** : 27 May 2024    Moose Creek, ON  
**Unique Number** : 5786375    **Diagnosed** : 27 May 2024 - Kevin Marson    CA K0C 1W0  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )    Contact: Charles Bergeron  
 cbergeron@gflenv.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.