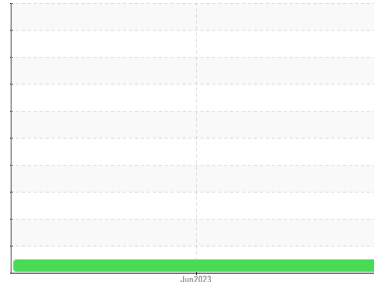


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**424**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (25 LTR)**

## 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>PC0076485</b>	---	---
Sample Date	Client Info	<b>27 Jun 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Chromium ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Lead ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Copper ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Tin ppm ASTM D5185(m)	>20	<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	history 1	history 2
Boron ppm ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Barium ppm ASTM D5185(m)	0	<b>0</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>&lt;1</b>	---	---
Calcium ppm ASTM D5185(m)	100	<b>95</b>	---	---
Phosphorus ppm ASTM D5185(m)	670	<b>643</b>	---	---
Zinc ppm ASTM D5185(m)	850	<b>783</b>	---	---
Sulfur ppm ASTM D5185(m)	1600	<b>1418</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Sodium ppm ASTM D5185(m)		<b>0</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>0</b>	---	---

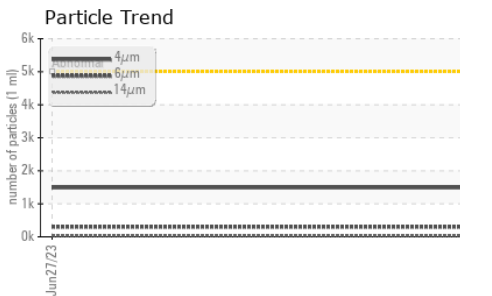
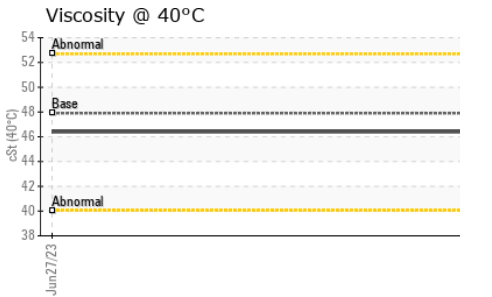
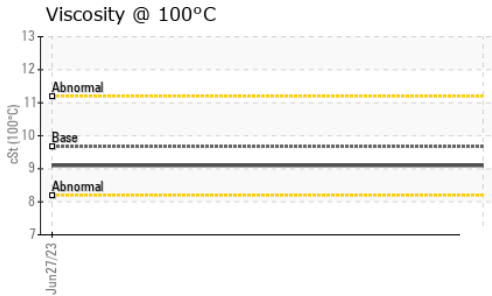
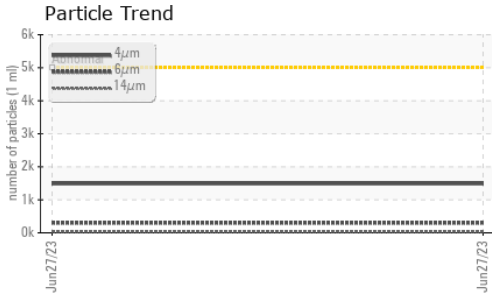
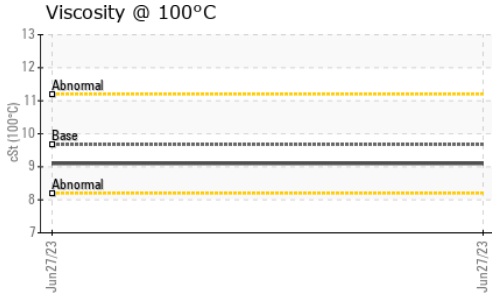
## FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm ASTM D7647	>5000	<b>1489</b>	---	---
Particles >6µm ASTM D7647	>1300	<b>302</b>	---	---
Particles >14µm ASTM D7647	>160	<b>33</b>	---	---
Particles >21µm ASTM D7647	>40	<b>10</b>	---	---
Particles >38µm ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>18/15/12</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g ASTM D974*	0.60	<b>0.46</b>	---	---

# OIL ANALYSIS REPORT



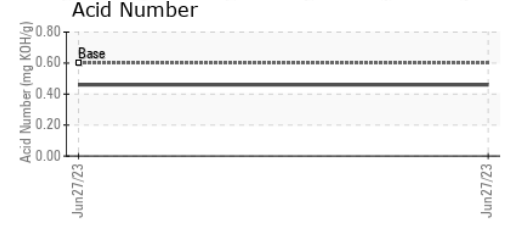
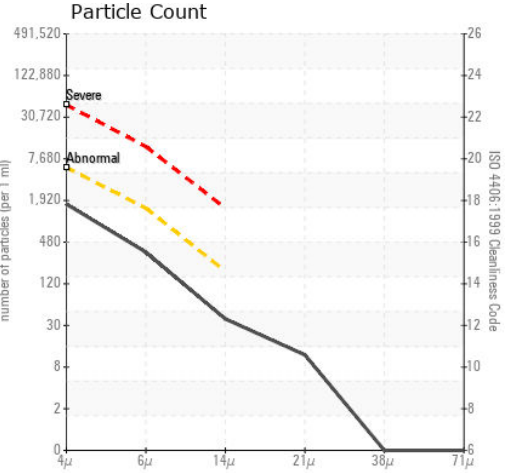
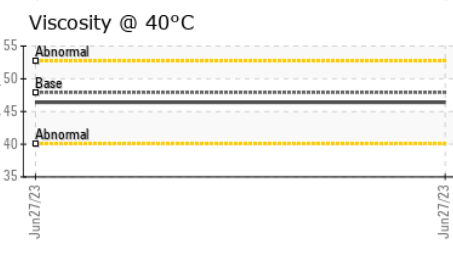
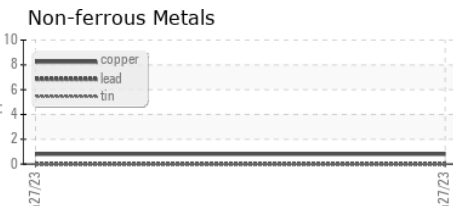
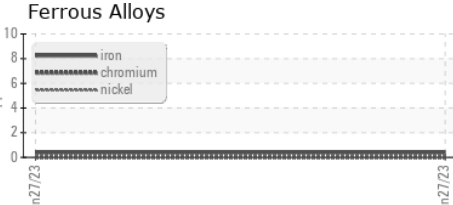
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.05	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	46.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	9.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	192	182	---

## SAMPLE IMAGES

	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0076485 **Received** : 29 Jun 2023  
**Lab Number** : 02567313 **Diagnosed** : 30 Jun 2023  
**Unique Number** : 5604359 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**WALINGA**  
 938 GLENGARRY CRESCENT  
 FERGUS, ON  
 CA N1M 2W7  
 Contact: Duane Swaving  
 duane.swaving@walinga.com  
 T: (519)787-8227  
 F: (519)787-8210

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.