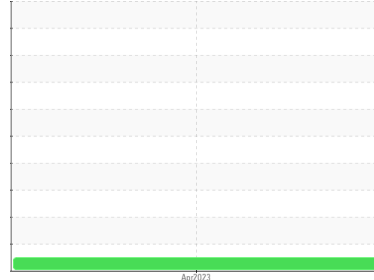


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**ELIOS U1-32**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA PURITY FG HYDRAULIC AW 68 (500 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	history1	history2
Sample Number	Client Info	<b>PC0077155</b>	---	---
Sample Date	Client Info	<b>01 Apr 2023</b>	---	---
Machine Age	hrs Client Info	<b>42783</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	history1	history2
Iron ppm	ASTM D5185(m) >20	<b>3</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>0</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	history1	history2
Boron ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Barium ppm	ASTM D5185(m)	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185(m)	<b>0</b>	---	---
Manganese ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Calcium ppm	ASTM D5185(m)	<b>9</b>	---	---
Phosphorus ppm	ASTM D5185(m)	<b>341</b>	---	---
Zinc ppm	ASTM D5185(m)	<b>22</b>	---	---
Sulfur ppm	ASTM D5185(m)	<b>1945</b>	---	---
Lithium ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >15	<b>4</b>	---	---
Sodium ppm	ASTM D5185(m)	<b>3</b>	---	---
Potassium ppm	ASTM D5185(m) >20	<b>1</b>	---	---

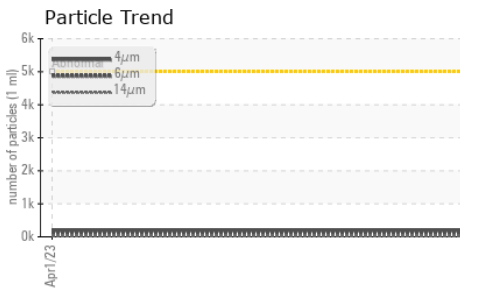
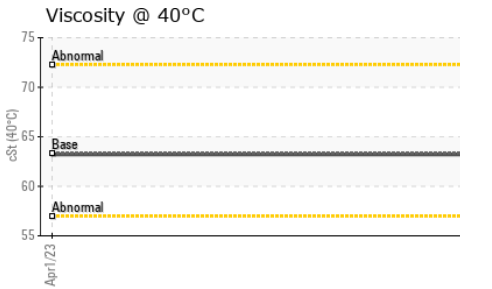
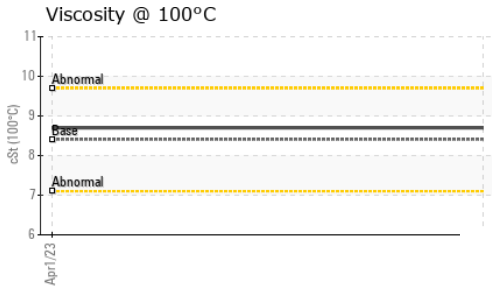
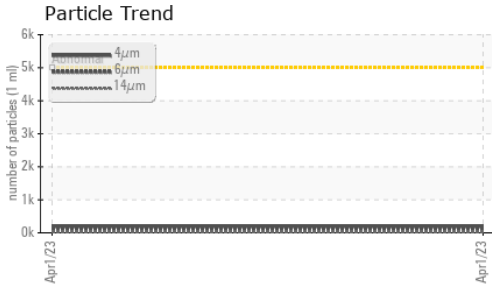
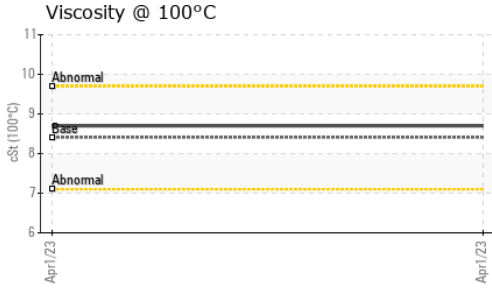
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>191</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>77</b>	---	---
Particles >14µm	ASTM D7647 >160	<b>18</b>	---	---
Particles >21µm	ASTM D7647 >40	<b>4</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>15/13/11</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974* 0.26	<b>0.14</b>	---	---

# OIL ANALYSIS REPORT



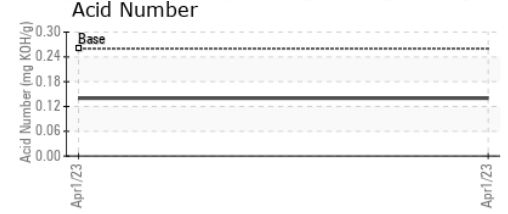
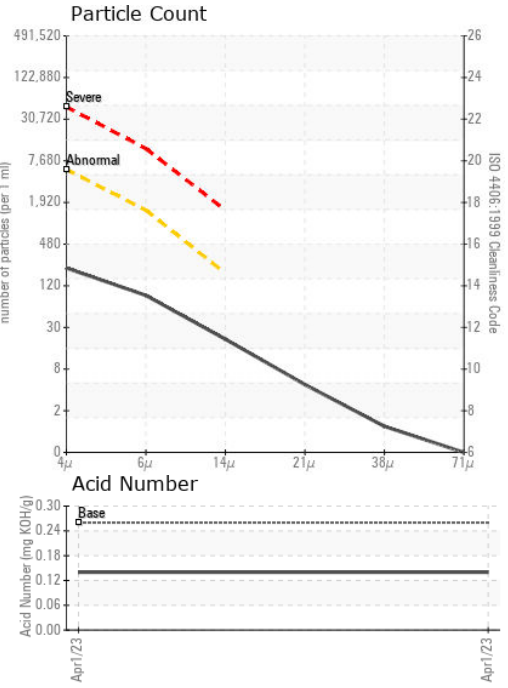
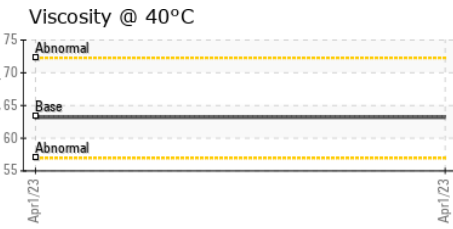
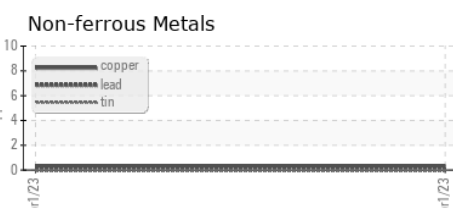
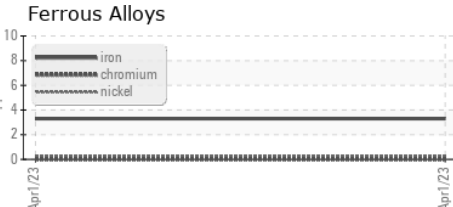
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	63.34	63.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.409	8.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	102	110	---

## SAMPLE IMAGES

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0077155 **Received** : 12 Jul 2023  
**Lab Number** : 02569390 **Diagnosed** : 13 Jul 2023  
**Unique Number** : 5606436 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**North America IML Container**  
 2625, Route 344  
 St. Placide, QC  
 CA J0V 2B0  
 Contact: Corinna Bouchard  
 cbouchard@iml.ca  
 T: (450)258-3130  
 F: (450)258-3345

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.