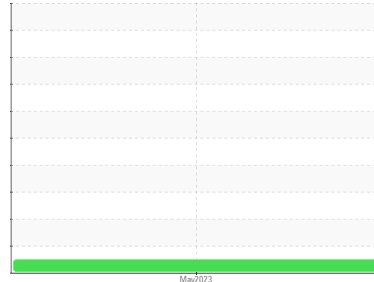




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**LSGS PLANT 1**  
 Machine Id  
**G3**  
 Component  
**Governor System**  
 Fluid  
**PETRO CANADA ENDURATEX EP 68 (200 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>WC0801011</b>	---	---
Sample Date	Client Info		<b>18 May 2023</b>	---	---
Machine Age	yrs	Client Info	<b>12</b>	---	---
Oil Age	yrs	Client Info	<b>2</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>50	<b>1</b>	---
Chromium	ppm	ASTM D5185(m)	>10	<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)	>3	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185(m)	>55	<b>0</b>	---
Antimony	ppm	ASTM D5185(m)	>5	<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)	69	<b>40</b>	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	---
Molybdenum	ppm	ASTM D5185(m)	1	<b>0</b>	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	---
Calcium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	---
Phosphorus	ppm	ASTM D5185(m)	246	<b>298</b>	---
Zinc	ppm	ASTM D5185(m)	1	<b>5</b>	---
Sulfur	ppm	ASTM D5185(m)	3670	<b>4518</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	---
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---

## FLUID CLEANLINESS

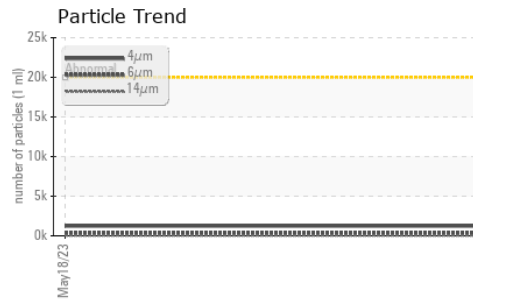
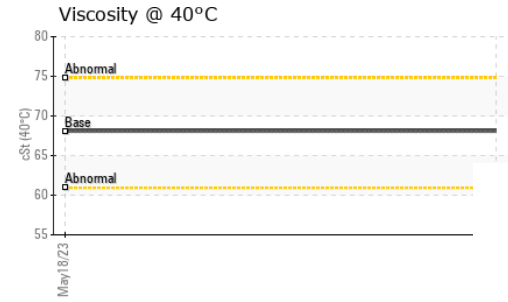
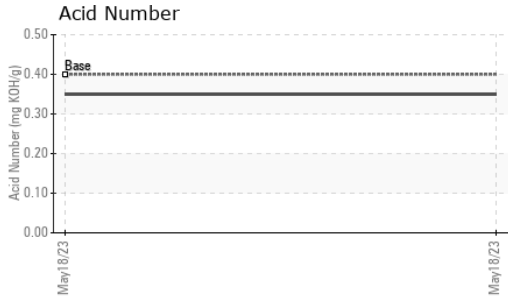
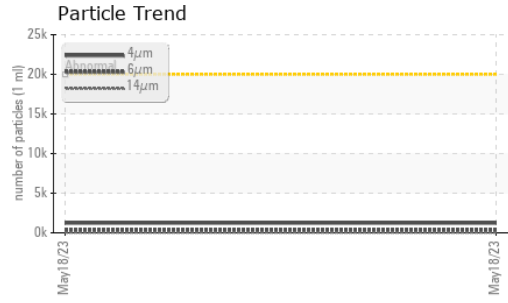
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>20000	<b>1239</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>308</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>42</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>14</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>17/15/13</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	<b>0.35</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*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

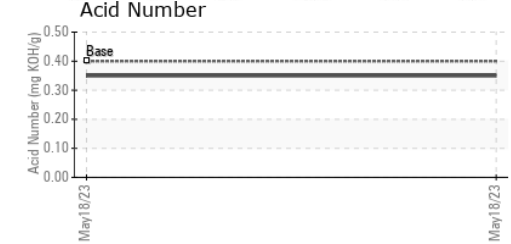
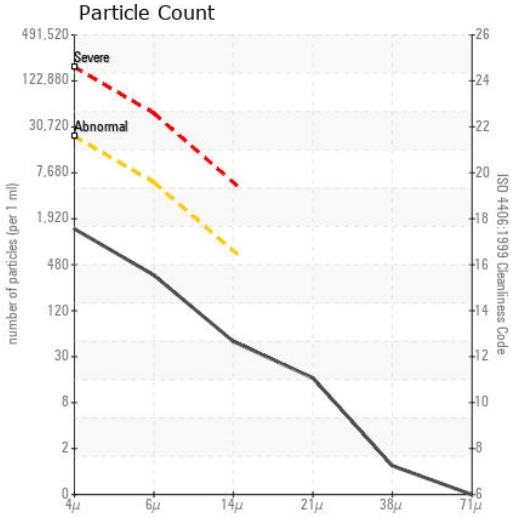
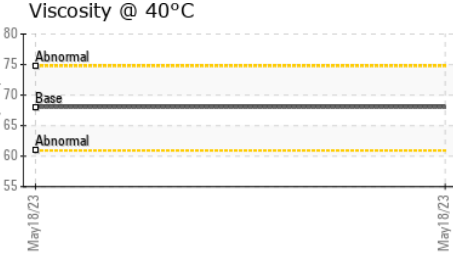
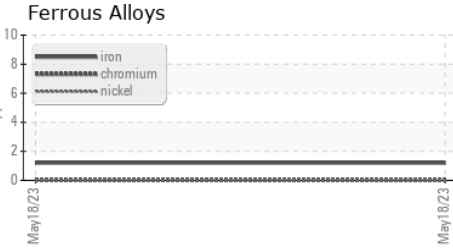
FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 40°C	cSt	ASTM D7279(m)	68.0	68.1	---	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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**Color**

Color		no image	no image
<b>Bottom</b>		no image	no image

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0801011 **Received** : 29 May 2023  
**Lab Number** : 02560188 **Diagnosed** : 30 May 2023  
**Unique Number** : 5581228 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**PETERBOROUGH UTILITIES INC**  
 1867 ASHBURNHAM DRIVE  
 PETERBOROUGH, ON  
 CA K9L 1P8  
 Contact: Nelson Ross  
 nross@pui.ca  
 T: (705)760-6119  
 F: (705)748-3138

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.