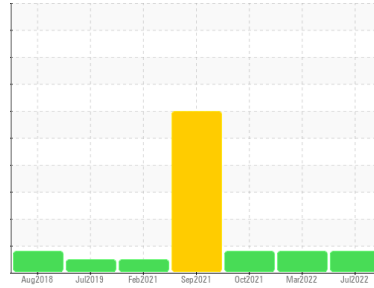




# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**TRPC G2 DOWN STREAM**

Component  
**Bearing**

Fluid  
**ESSO NUTO H ISO 100 (30 LTR)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Iron ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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>WC0541635</b>	WC0488606	WC0541637
Sample Date	Client Info		<b>12 Jul 2022</b>	31 Mar 2022	25 Oct 2021
Machine Age	hrs	Client Info	<b>66322</b>	64629	60974
Oil Age	hrs	Client Info	<b>14599</b>	12906	9251
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status			<b>ATTENTION</b>	ATTENTION	ATTENTION

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>2</b>	0	7
Iron	ppm	ASTM D5185(m) >20	<b>▲ 30</b>	▲ 28	▲ 34
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185(m)	<b>46</b>	47	47
Phosphorus	ppm	ASTM D5185(m)	<b>351</b>	345	346
Zinc	ppm	ASTM D5185(m)	<b>402</b>	431	429
Sulfur	ppm	ASTM D5185(m)	<b>6987</b>	7238	7285
Lithium	ppm	ASTM D5185(m)	<b>2</b>	2	2

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>2</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

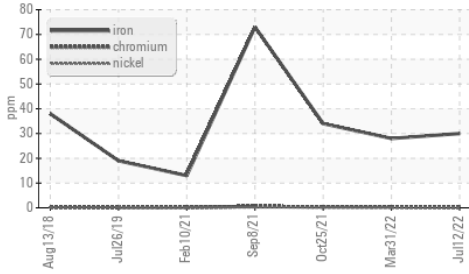
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* .40	<b>0.49</b>	0.46	0.43

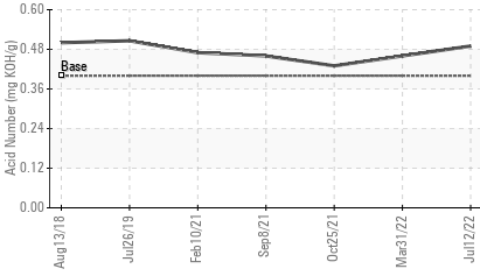


# OIL ANALYSIS REPORT

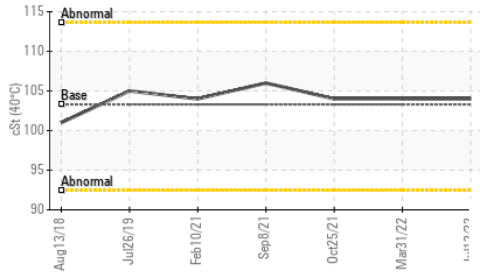
### ▲ Ferrous Alloys



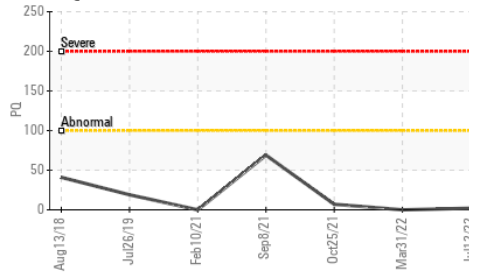
### Acid Number



### Viscosity @ 40°C



### PQ

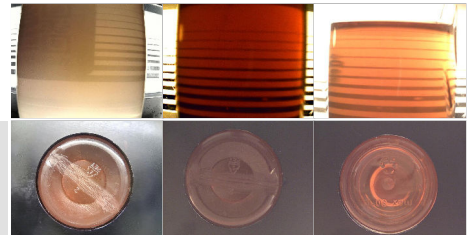


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	103.3	104	104

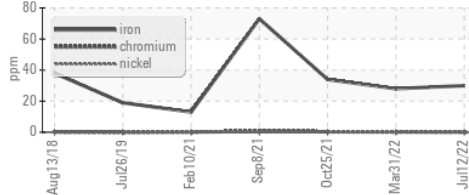
SAMPLE IMAGES	method	limit/base	current	history1	history2
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### Color

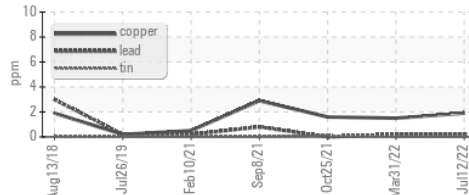


### GRAPHS

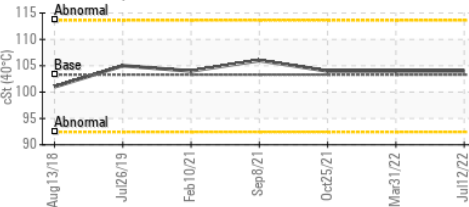
#### ▲ Ferrous Alloys



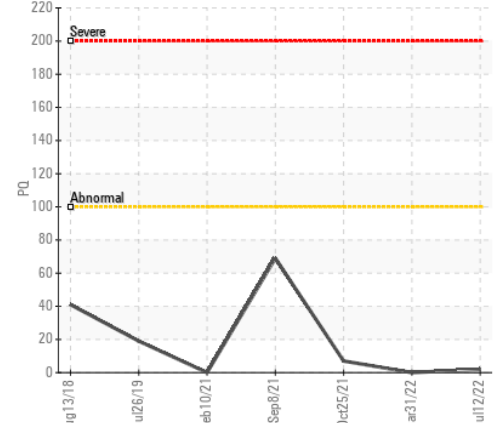
#### Non-ferrous Metals



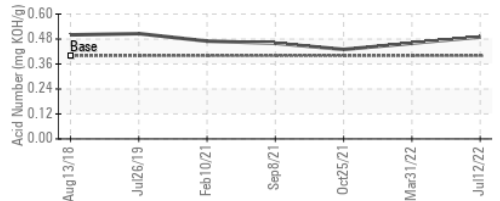
#### Viscosity @ 40°C



#### PQ



#### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0541635 **Received** : 09 Sep 2022  
**Lab Number** : 02509806 **Tested** : 09 Sep 2022  
**Unique Number** : 5450776 **Diagnosed** : 12 Sep 2022 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**PETERBOROUGH UTILITIES INC**  
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 nross@pui.ca  
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 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.