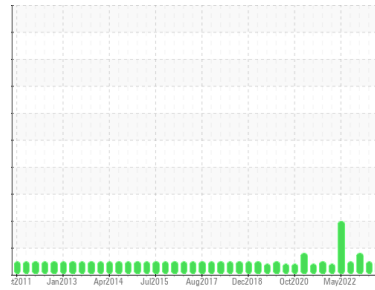




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**SAB1**  
 Machine Id  
**SAB1 G6 Governor**

Component  
**Hydraulic System**  
 Fluid  
**ESSO TERESSO ISO 46 (1600 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>WC0828624</b>	WC0642876	WC0587303
Sample Date	Client Info	<b>27 Aug 2023</b>	27 Mar 2023	25 Nov 2022
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ATTENTION

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	<1
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0

### ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0
Magnesium	ppm	ASTM D5185(m)	0	<b>0</b>	<1
Calcium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0
Phosphorus	ppm	ASTM D5185(m)	2.4	<b>7</b>	7
Zinc	ppm	ASTM D5185(m)	0	<b>2</b>	<1
Sulfur	ppm	ASTM D5185(m)		<b>700</b>	733
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

### CONTAMINANTS

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

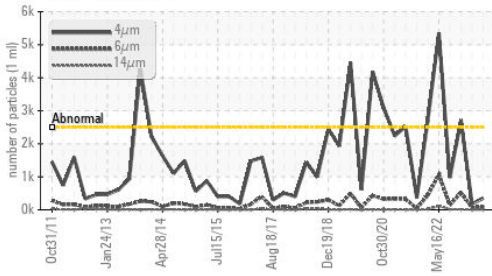
### FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	<b>351</b>	176	▲ 2714
Particles >6µm	ASTM D7647	>640	<b>76</b>	67	519
Particles >14µm	ASTM D7647	>80	<b>7</b>	7	17
Particles >21µm	ASTM D7647	>20	<b>2</b>	2	3
Particles >38µm	ASTM D7647	>4	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>16/13/10</b>	15/13/10	▲ 19/16/11

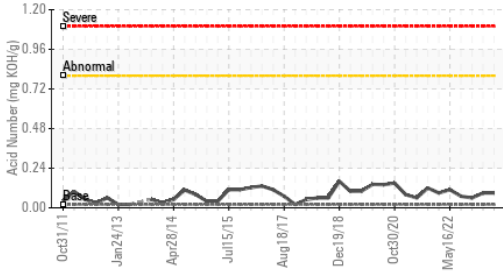
### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	<b>0.09</b>	0.09

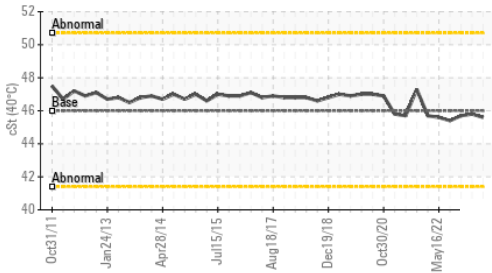
### Particle Trend



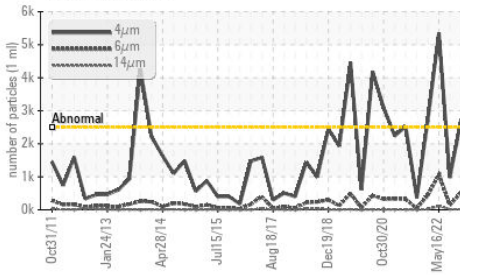
### Acid Number



### Viscosity @ 40°C



### Particle Trend

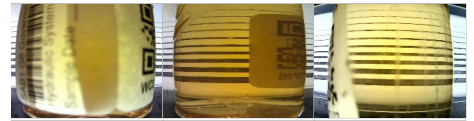


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.6	45.8

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

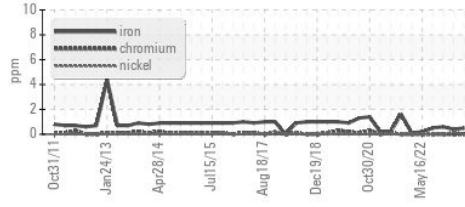


### Bottom

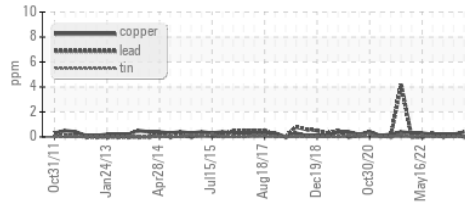


### GRAPHS

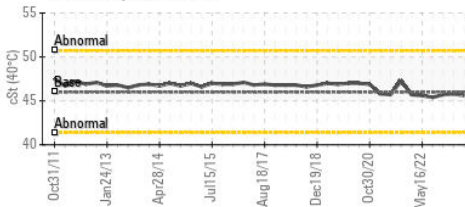
#### Ferrous Alloys



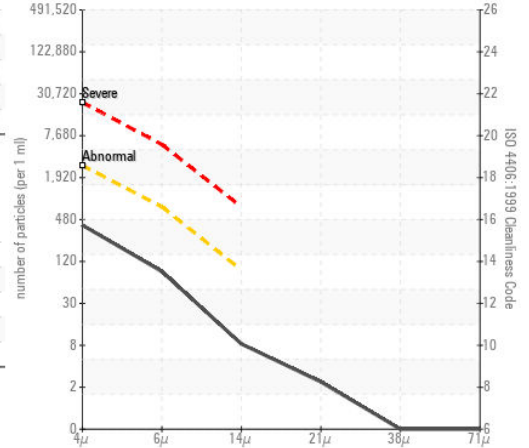
#### Non-ferrous Metals



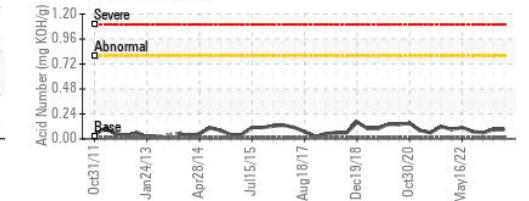
#### Viscosity @ 40°C



#### Particle Count



#### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0828624 **Received** : 28 Aug 2023  
**Lab Number** : 02578765 **Diagnosed** : 29 Aug 2023  
**Unique Number** : 5631825 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Ontario Power Generation**  
 NIAGARA PLANT GROUP, 14000 NIAGARA PKWY  
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 Contact: Michael Brochu  
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 T: (905)357-0322  
 F: (905)374-5466

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.