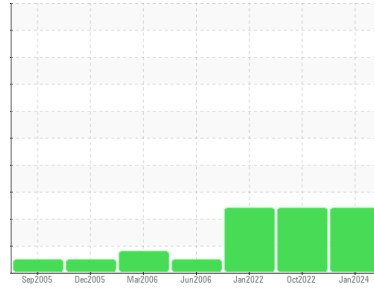




# OIL ANALYSIS REPORT

Sample Rating Trend



## ADDITIVES



Machine Id  
**RBK G1 THBR**

Component  
**Bearing**

Fluid  
**ESSO TERESSO ISO 68 (55 GAL)**

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0706217</b>	WC0445347	WC0327900
Sample Date	Client Info		<b>05 Jan 2024</b>	07 Oct 2022	17 Jan 2022
Machine Age	days	Client Info	<b>0</b>	0	0
Oil Age	days	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	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	
Iron	ppm	ASTM D5185(m)	>63	<b>6</b>	5	<1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185(m)	>161	<b>17</b>	17	21
Copper	ppm	ASTM D5185(m)	>13	<b>2</b>	1	4
Tin	ppm	ASTM D5185(m)	>27	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
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)	4.5	<b>0</b>	0	<1
Barium	ppm	ASTM D5185(m)	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m)	0.7	<b>▲ 115</b>	▲ 130	▲ 64
Zinc	ppm	ASTM D5185(m)	0	<b>56</b>	▲ 61	▲ 30
Sulfur	ppm	ASTM D5185(m)	1315	<b>▲ 2153</b>	▲ 2159	▲ 1896
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>12	<b>1</b>	1	5
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1

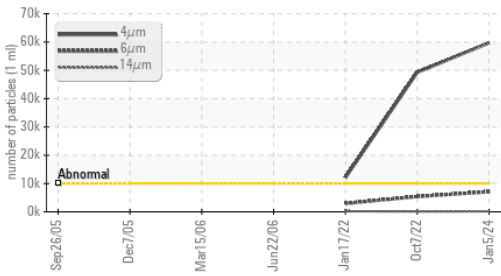
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 59721</b>	▲ 49306	▲ 12096
Particles >6µm	ASTM D7647	>2500	<b>▲ 7112</b>	▲ 5395	▲ 2935
Particles >14µm	ASTM D7647	>160	<b>▲ 184</b>	124	▲ 213
Particles >21µm	ASTM D7647	>40	<b>43</b>	35	53
Particles >38µm	ASTM D7647	>10	<b>2</b>	2	3
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>▲ 23/20/15</b>	▲ 23/20/14	▲ 21/19/15

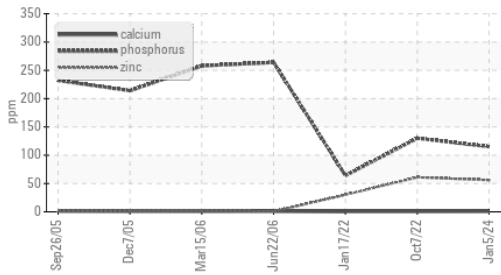


# OIL ANALYSIS REPORT

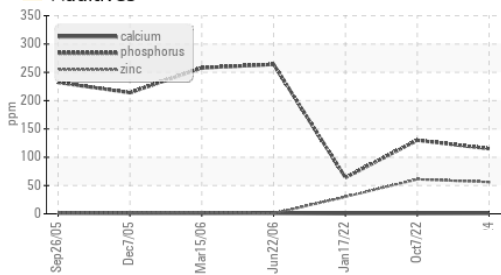
### Particle Trend



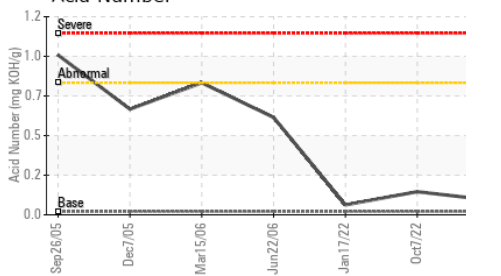
### Additives



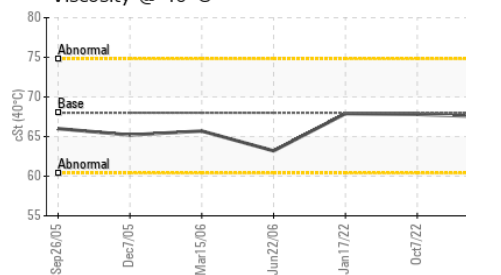
### Additives



### Acid Number



### Viscosity @ 40°C



### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN) mg KOH/g	ASTM D974*	0.02	<b>0.09</b>	0.14	0.06
VISUAL					
method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	Visual*	>2	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

### FLUID PROPERTIES

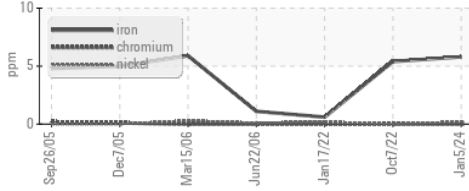
method	limit/base	current	history1	history2		
Visc @ 40°C	cSt	ASTM D7279(m)	68	<b>67.5</b>	67.8	67.9

### SAMPLE IMAGES

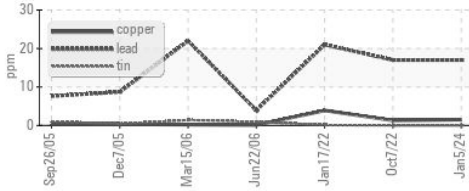
method	limit/base	current	history1	history2	
Color			no image	no image	no image
Bottom			no image	no image	no image

### GRAPHS

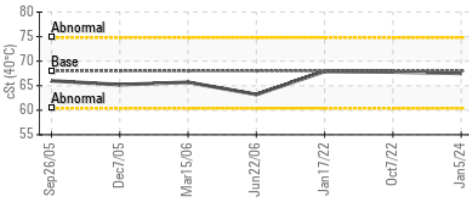
#### Ferrous Alloys



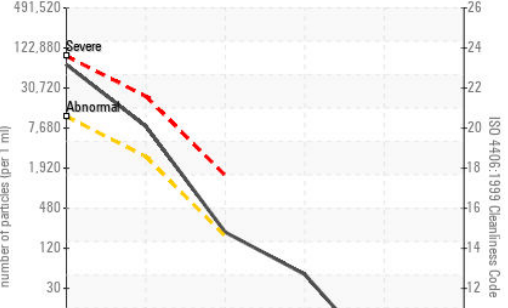
#### Non-ferrous Metals



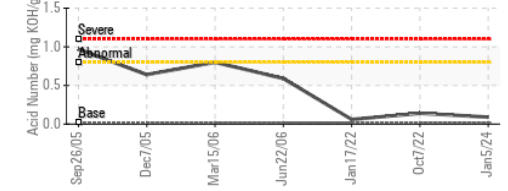
#### Viscosity @ 40°C



#### Particle Count



#### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0706217 **Received** : 09 Jan 2024  
**Lab Number** : 02607523 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 5708609 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**NEWFOUNDLAND POWER INC.**  
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 Contact: Shane Reid  
 sreid@newfoundlandpower.com  
 T: (709)737-5209  
 F: (709)737-2926

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.