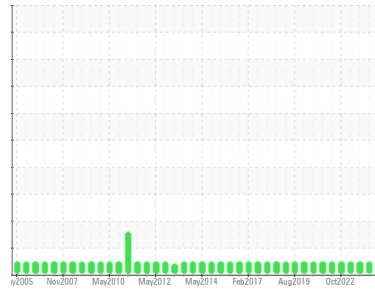




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**LBK G3 GOV**

Component  
**Governor System**

Fluid  
**ESSO TERESSO ISO 68 (100 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>WC0706118</b>	WC0706110	WC0706101
Sample Date	Client Info	<b>29 May 2024</b>	22 Nov 2023	26 Oct 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	Not Changd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	<b>0</b>	0	0	
Iron	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	<1	0
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m) >75	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >55	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	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

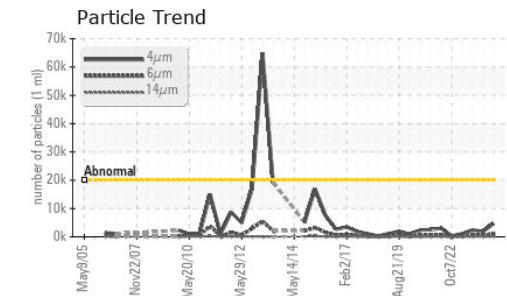
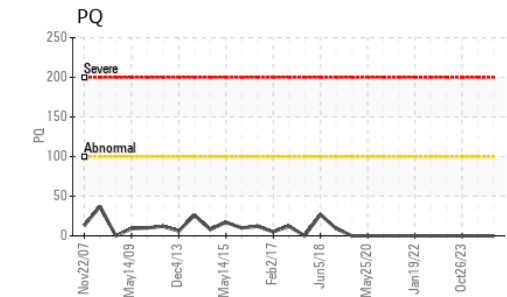
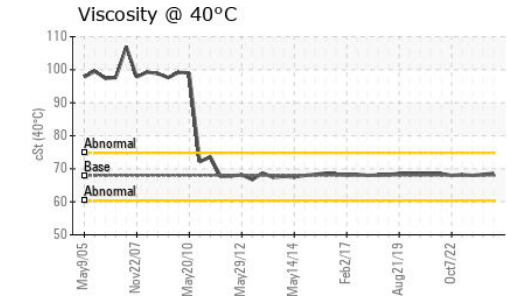
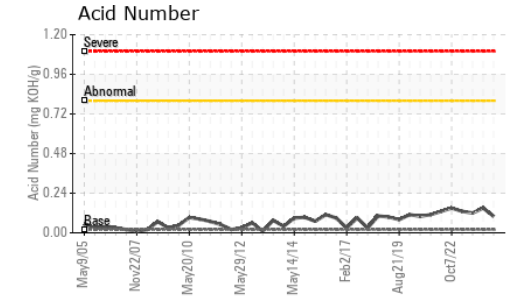
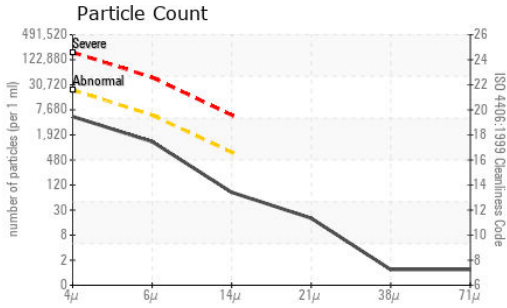
method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 4.5	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0.4	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Phosphorus	ppm	ASTM D5185(m) 0.7	<b>10</b>	5	8
Zinc	ppm	ASTM D5185(m) 0	<b>2</b>	<1	<1
Sulfur	ppm	ASTM D5185(m) 1315	<b>1669</b>	1728	1722
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >8	<b>0</b>	0	0
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	0



# OIL ANALYSIS REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>4635</b>	1918	2417
Particles >6µm	ASTM D7647	>5000	<b>1158</b>	495	631
Particles >14µm	ASTM D7647	>640	<b>71</b>	30	32
Particles >21µm	ASTM D7647	>160	<b>17</b>	5	6
Particles >38µm	ASTM D7647	>40	<b>1</b>	0	1
Particles >71µm	ASTM D7647	>10	<b>1</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>19/17/13</b>	18/16/12	18/16/12

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.02	<b>0.10</b>	0.15	0.12

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar Visual*	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	68	<b>68.6</b>	68.3	68.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



Bottom



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0706118 **Received** : 19 Jun 2024  
**Lab Number** : **02642930** **Tested** : 21 Jun 2024  
**Unique Number** : 5800469 **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount, TAN Man )

**NEWFOUNDLAND POWER INC.**  
 50 DUFFY PLACE, PO BOX 8910  
 ST. JOHNS, NL  
 CA A1B 3P6  
 Contact: Paul Martin  
 pmartin@newfoundlandpower.com

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.

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