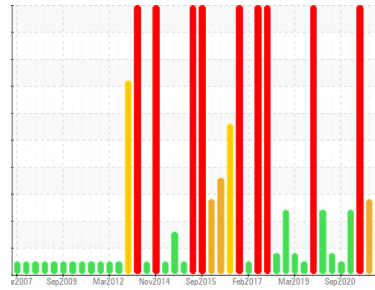




# PROBLEM SUMMARY

Area  
**[198764]**  
 Machine Id  
**WBK G THBR**  
 Component  
**Bearing**  
 Fluid  
**ESSO TERESSO ISO 68 (10 LTR)**

Sample Rating Trend

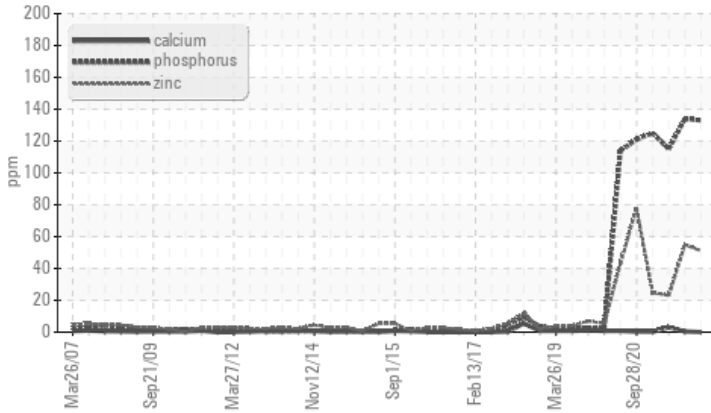


**WATER**



## COMPONENT CONDITION SUMMARY

Additives



## RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	<b>ABNORMAL</b>	<b>SEVERE</b>
Emulsified Water	scalar	Visual*	>2	▲ .2%	.5%	▲ 1%
Free Water	scalar	Visual*		▲ 1%	▲ 1%	▲ 1%

Customer Id: NEWSTJ  
 Sample No.: WC0328091  
 Lab Number: 02554180  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Bill Quesnel CLS, OMA II, MLA-III, LLA-I +1  
 (289)291-4641 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.
Filter Fluid	---	---	?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.

## HISTORICAL DIAGNOSIS

### WATER



#### 14 Mar 2022 Diag: Kevin Marson

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We recommend that you change the oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. All component wear rates are normal. Free water present. Additive levels indicate the addition of a different brand, or type of oil. The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

[view report](#)



### WEAR



#### 20 Oct 2021 Diag: Kevin Marson

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Tin ppm levels are severe. Copper ppm levels are abnormal. Antimony ppm levels are noted. Bearing wear is indicated. There is a moderate concentration of water present in the oil. Free water present. Additive levels indicate the addition of a different brand, or type of oil. The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

[view report](#)



### WATER



#### 15 Mar 2021 Diag: Kevin Marson

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Copper ppm levels are abnormal. Bearing wear is indicated. Free water present. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

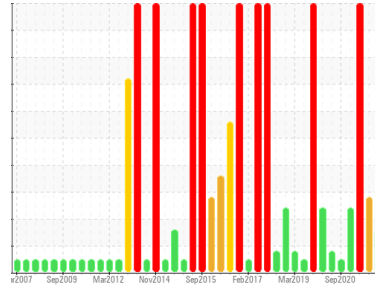
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**[198764]**  
 Machine Id  
**WBK G THBR**  
 Component  
**Bearing**  
 Fluid  
**ESSO TERESSO ISO 68 (10 LTR)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. 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 concentration of water present in the oil. Free water present.

### 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>WC0328091</b>	WC0445264	WC0445259
Sample Date	Client Info	<b>26 Mar 2023</b>	14 Mar 2022	20 Oct 2021
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changd	Not Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	<b>0</b>	23	0	
Iron	ppm	ASTM D5185(m) >63	<b>4</b>	29	21
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	1	1
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<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>	2	1
Lead	ppm	ASTM D5185(m) >161	<b>3</b>	4	3
Copper	ppm	ASTM D5185(m) >13	<b>4</b>	10	▲ 23
Tin	ppm	ASTM D5185(m) >27	<b>3</b>	18	● 59
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</b>	2	▲ 5
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>&lt;1</b>	<1	<1

## ADDITIVES

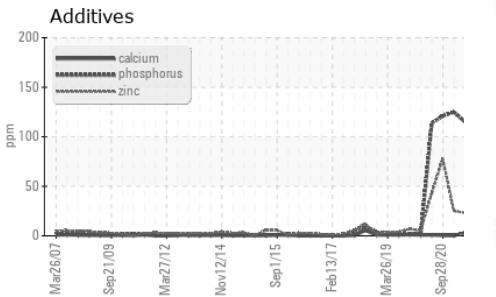
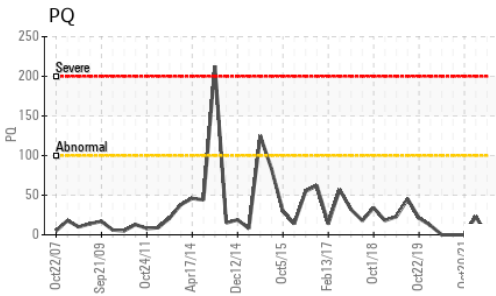
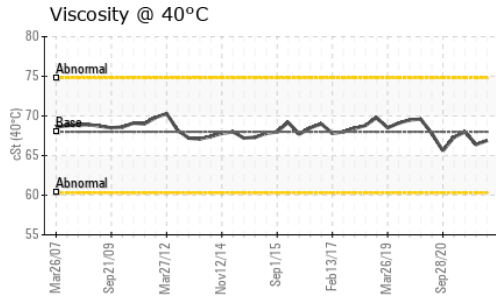
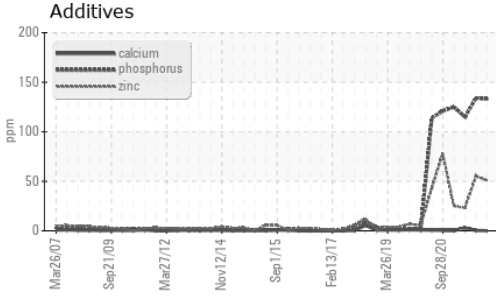
method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 4.5	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	1
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	3
Phosphorus	ppm	ASTM D5185(m) 0.7	<b>133</b>	134	115
Zinc	ppm	ASTM D5185(m) 0	<b>51</b>	55	23
Sulfur	ppm	ASTM D5185(m) 1315	<b>2444</b>	2435	2391
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>&lt;1</b>	3	4
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	5
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## FLUID DEGRADATION

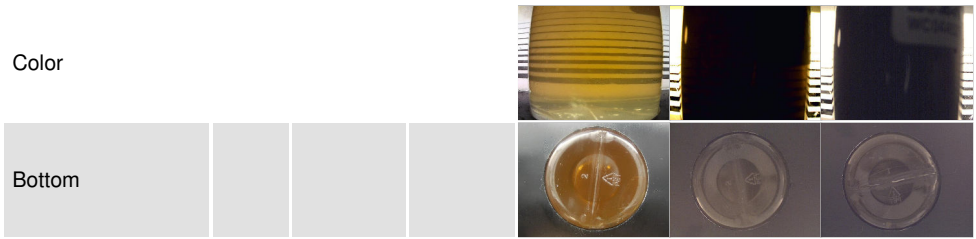
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974* 0.02	<b>0.12</b>	0.11	0.08



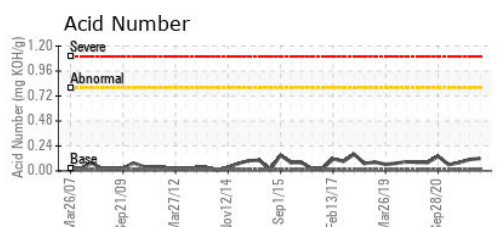
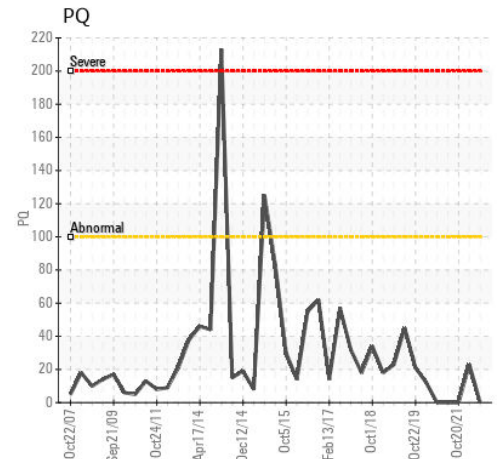
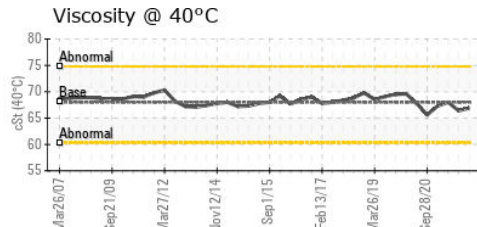
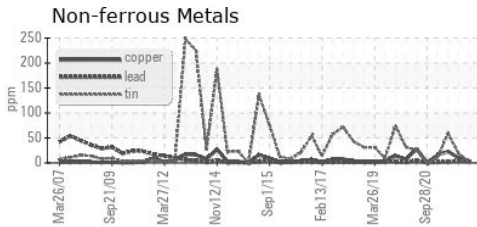
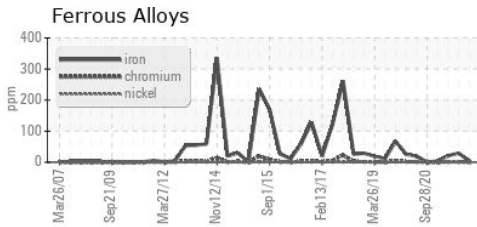
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	▲ LIGHT	▲ LIGHT
Silt	scalar	Visual*	NONE	LIGHT	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	▲ .2%	.5%
Free Water	scalar	Visual*		▲ 1%	▲ 1%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	66.4	68.0

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0328091 **Received** : 28 Apr 2023  
**Lab Number** : 02554180 **Diagnosed** : 01 May 2023  
**Unique Number** : 5567195 **Diagnostician** : Bill Quesnel  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

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