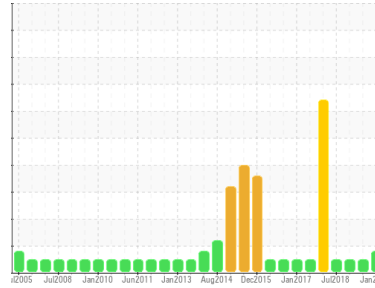




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**PHR G3 GEBR**

Component  
**Bearing**

Fluid  
**MOBIL DTE OIL HVY MEDIUM (25 LTR)**

## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Tin ppm levels are abnormal. Bearing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0299342</b>	WC0299368	WC985151
Sample Date	Client Info	<b>13 Jan 2020</b>	29 Aug 2019	10 Jan 2019
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## 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>6</b>	9	13
Iron	ppm ASTM D5185(m) >63	<b>6</b>	4	4
Chromium	ppm ASTM D5185(m)	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0
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) >2	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185(m) >161	<b>2</b>	2	2
Copper	ppm ASTM D5185(m) >13	<b>10</b>	6	7
Tin	ppm ASTM D5185(m) >27	<b>▲ 41</b>	24	22
Antimony	ppm ASTM D5185(m)	<b>3</b>	2	<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	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>0</b>	0	0
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>&lt;1</b>	<1	<1
Calcium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Phosphorus	ppm ASTM D5185(m)	<b>2</b>	2	3
Zinc	ppm ASTM D5185(m)	<b>19</b>	17	17
Sulfur	ppm ASTM D5185(m)	<b>1837</b>	1862	1844
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0

## CONTAMINANTS

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

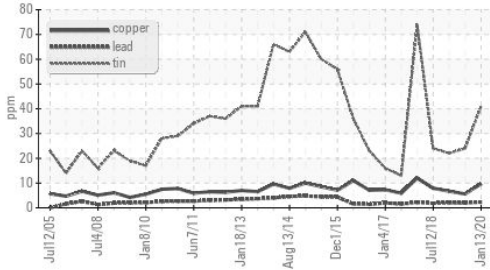
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	<b>0.066</b>	0.076	0.096

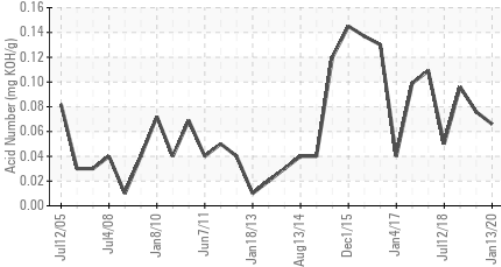


# OIL ANALYSIS REPORT

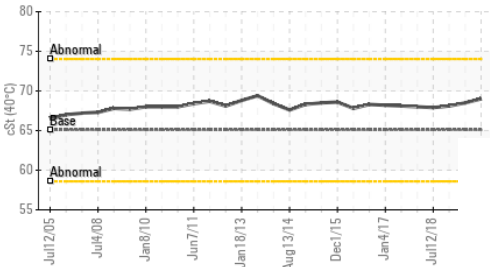
## Non-ferrous Metals



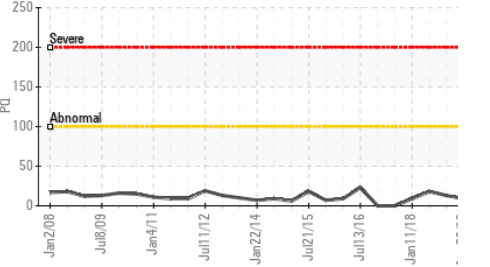
## Acid Number



## Viscosity @ 40°C



## PQ

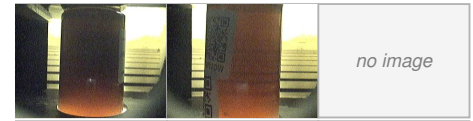


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	65.1	69.0	68.5

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

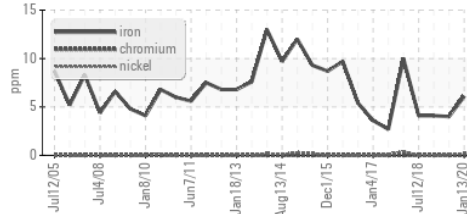


## Bottom

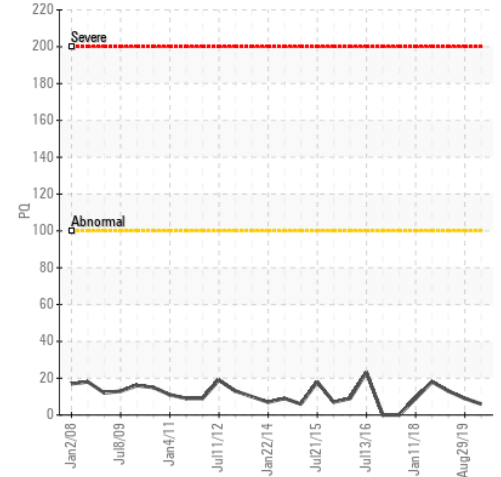


## GRAPHS

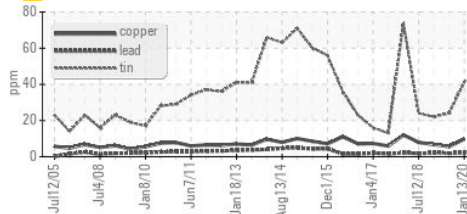
### Ferrous Alloys



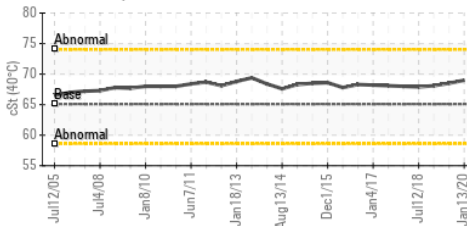
### PQ



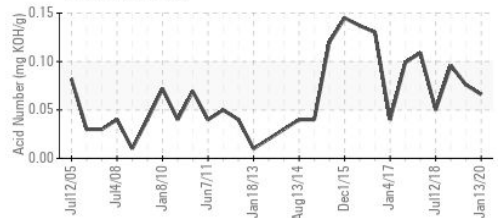
### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0299342  
**Lab Number** : 02332581  
**Unique Number** : 4991887  
**Test Package** : IND 2

**Received** : 17 Jan 2020  
**Diagnosed** : 20 Jan 2020  
**Diagnostician** : Kevin Marson

**NEWFOUNDLAND POWER INC.**  
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 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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