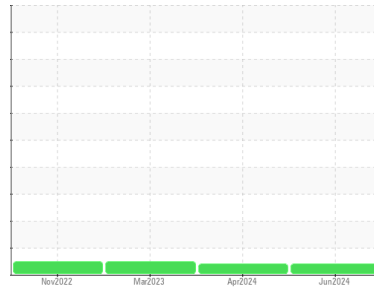




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area  
**EAST CRANE [13998089]**  
 Machine Id  
**170831 HOIST**  
 Component  
**Brake**  
 Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PP</b>	PP	PP
Sample Date	Client Info	<b>13 Jun 2024</b>	18 Apr 2024	07 Mar 2023
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>	ABNORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>2</b>	12	4
Iron	ppm	<b>51</b>	47	37
Chromium	ppm	<b>0</b>	0	<1
Nickel	ppm	<b>0</b>	0	<1
Titanium	ppm	<b>0</b>	0	0
Silver	ppm	<b>0</b>	0	0
Aluminum	ppm	<b>0</b>	0	<1
Lead	ppm	<b>&lt;1</b>	<1	<1
Copper	ppm	<b>36</b>	34	17
Tin	ppm	<b>&lt;1</b>	<1	<1
Antimony	ppm	<b>0</b>	0	0
Vanadium	ppm	<b>0</b>	0	0
Beryllium	ppm	<b>0</b>	0	0
Cadmium	ppm	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	<b>167</b>	193	219
Barium	ppm	<b>0</b>	0	0
Molybdenum	ppm	<b>0</b>	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1
Magnesium	ppm	<b>2</b>	2	20
Calcium	ppm	<b>8</b>	7	21
Phosphorus	ppm	<b>913</b>	1002	1375
Zinc	ppm	<b>65</b>	46	21
Sulfur	ppm	<b>14869</b>	16582	22760
Lithium	ppm	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	<b>&lt;1</b>	0	<1
Sodium	ppm	<b>1</b>	<1	3
Potassium	ppm	<b>&lt;1</b>	<1	2

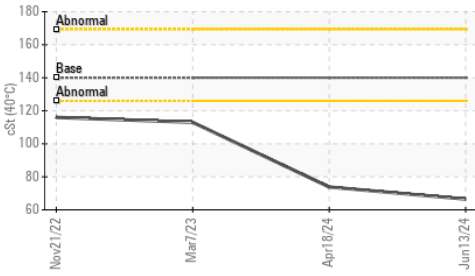
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	<b>1.23</b>	1.51	2.01

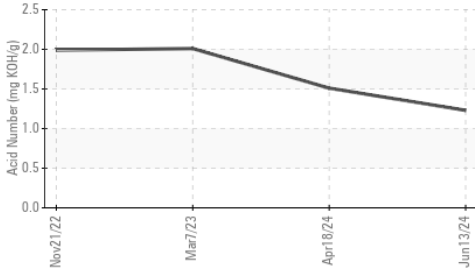


# OIL ANALYSIS REPORT

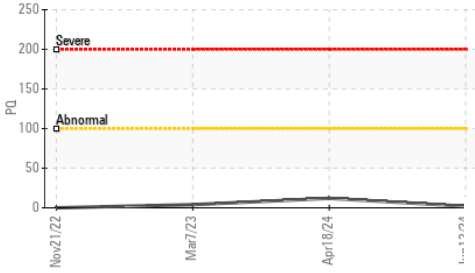
▲ Viscosity @ 40°C



Acid Number



PQ

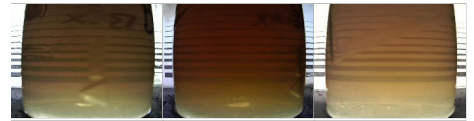


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	140 ▲ 66.5	▲ 73.8	113

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

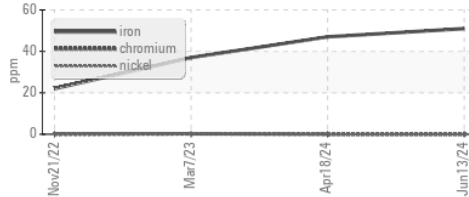


Bottom

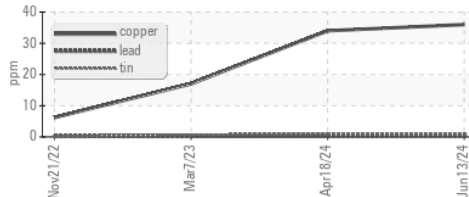


## GRAPHS

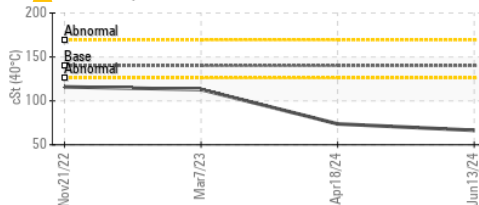
Ferrous Alloys



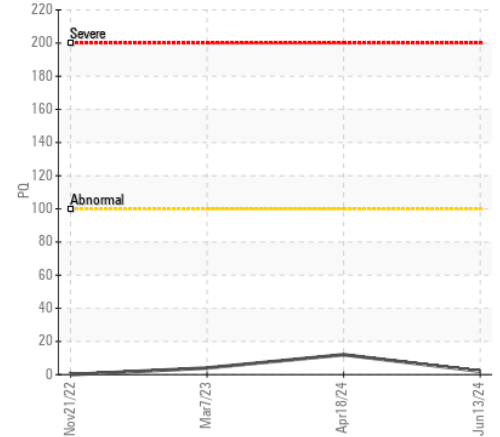
Non-ferrous Metals



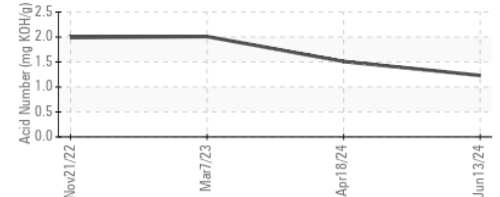
▲ Viscosity @ 40°C



PQ



Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP  
**Lab Number** : 02642143  
**Unique Number** : 5799682  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**HIBERNIA MGMT & DEVELOPMENT CO. LTD**  
 SUITE 1000,, 100 NEW GOWER STREET  
 ST.JOHN'S, NL  
 CA A1C 6K3  
 Contact: Sam Nash  
 samantha.m.nash@exxonmobil.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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