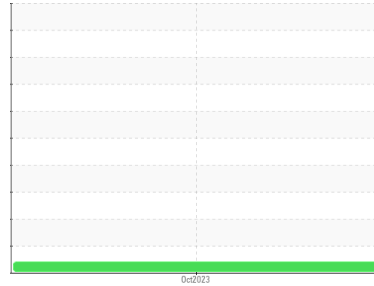




# PROBLEM SUMMARY

Sample Rating Trend



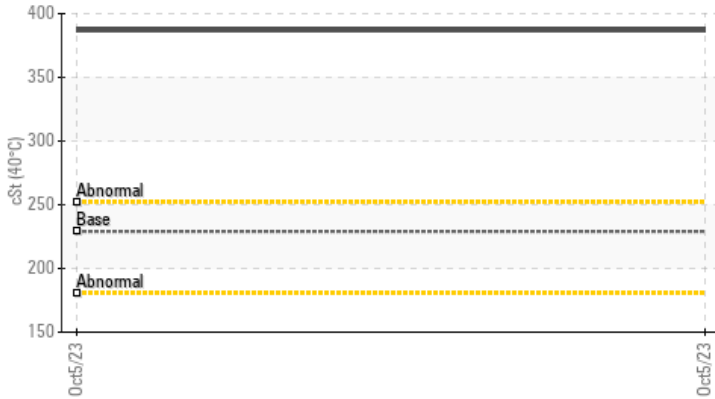
## VISCOSITY



Area  
**BUILDING 46 - GRAIN ELEVATOR [449087]**  
 Machine Id  
**CONV. SOUTH RETRIEVAL GEAR BOX (S/N 46CRTS-GB)**  
 Component  
**Gearbox**  
 Fluid  
**LUBRICATION ENG DUOLEC 1605 GEAR OIL 220 (--- LTR)**

### COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



### RECOMMENDATION

Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL			---	---
Visc @ 40°C	cSt	ASTM D7279(m)	229.0	▲ 387	---

Customer Id: HIRWIN  
 Sample No.: WC0802585  
 Lab Number: 02591868  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@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
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS

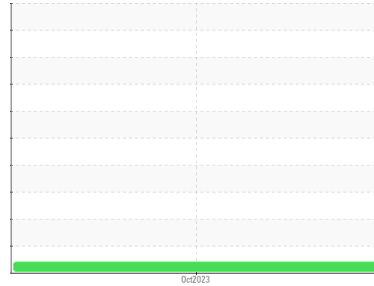


# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area  
**BUILDING 46 - GRAIN ELEVATOR [449087]**  
 Machine Id  
**CONV. SOUTH RETRIEVAL GEAR BOX (S/N 46CRTS-GB)**  
 Component  
**Gearbox**  
 Fluid  
**LUBRICATION ENG DUOLEC 1605 GEAR OIL 220 (--- LTR)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 320 range, advise investigate. 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>WC0802585</b>	---	---
Sample Date	Client Info	<b>05 Oct 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>Not Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>3</b>	---	---
Iron	ppm	ASTM D5185(m) >200	<b>17</b>	---
Chromium	ppm	ASTM D5185(m) >15	<b>0</b>	---
Nickel	ppm	ASTM D5185(m) >15	<b>0</b>	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	---
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>39</b>	---
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)	<b>2</b>	---
Calcium	ppm	ASTM D5185(m)	<b>2</b>	---
Phosphorus	ppm	ASTM D5185(m)	<b>686</b>	---
Zinc	ppm	ASTM D5185(m)	<b>5</b>	---
Sulfur	ppm	ASTM D5185(m)	<b>9494</b>	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---

## CONTAMINANTS

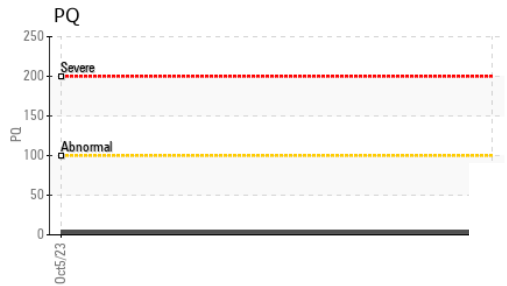
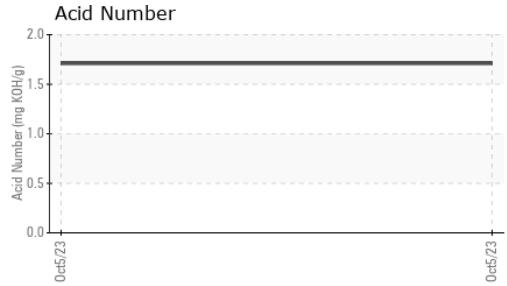
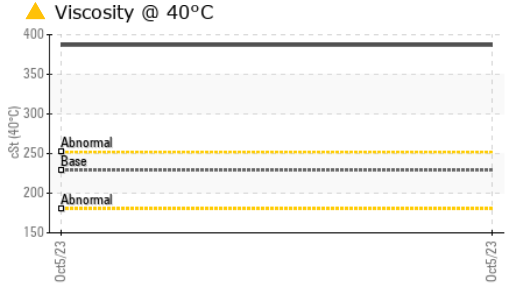
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>4</b>	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>1.71</b>	---



# OIL ANALYSIS REPORT



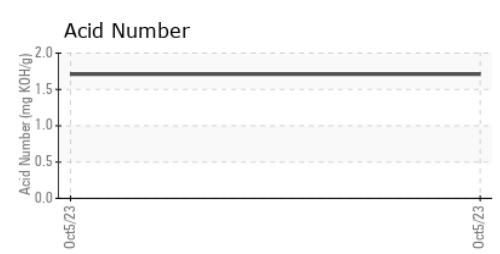
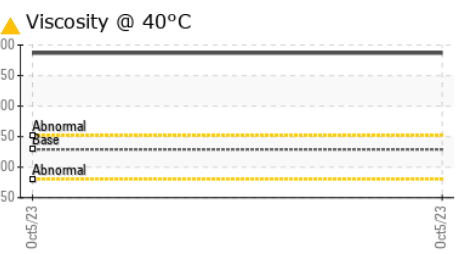
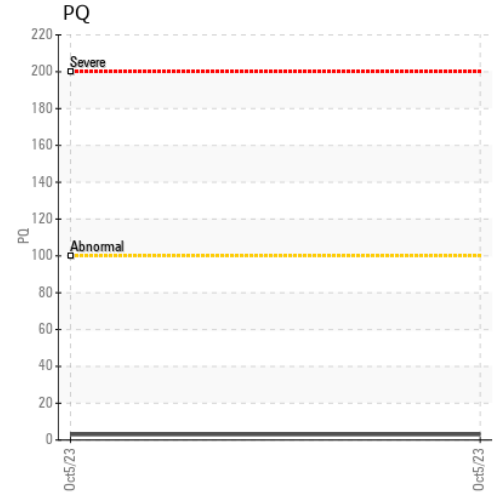
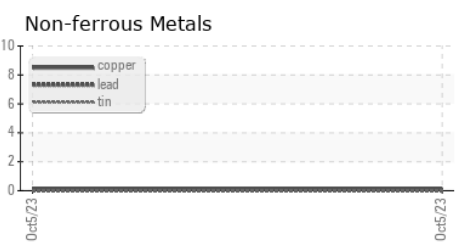
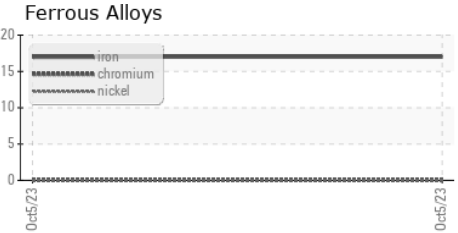
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	229.0	▲ 387	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0802585  
**Lab Number** : 02591868  
**Unique Number** : 5668947  
**Test Package** : IND 2 ( Additional Tests: PQ, TAN Man )

**HIRAM WALKER & SONS LTD.**  
 2072 RIVERSIDE DRIVE EAST, BOX 2518  
 WINDSOR, ON  
 CA N8Y 4S5  
 Contact: Matt Morand  
 matt.morand@pernod-ricard.com  
 T: (519)561-5359  
 F: (519)971-5719

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.