



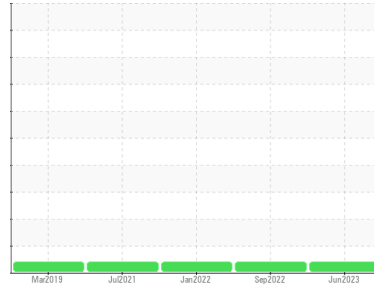
# PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

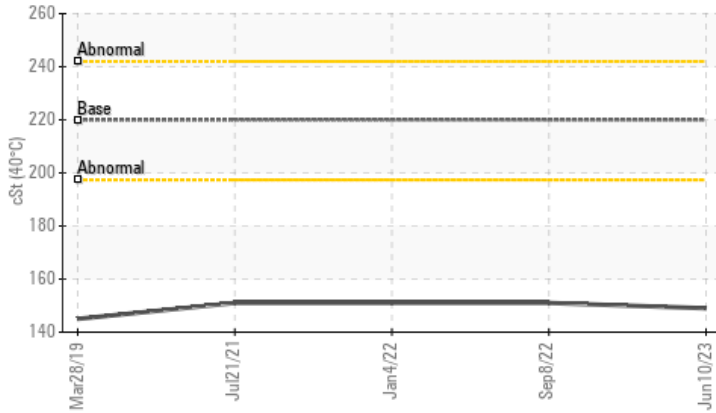


Machine Id  
**BELT CONVEYOR FROM SILOS GEARBOX (S/N 0-37200-CVR004)**  
 Component  
**4 Gearbox**  
 Fluid  
**FUCHS RENOLIN CLP ISO 220 (--- GAL)**



## 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				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 149	▲ 151	▲ 151

Customer Id: ONTATI  
 Sample No.: WC0822014  
 Lab Number: 02604207  
 Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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[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

### 08 Sep 2022 Diag: Kevin Marson

#### VISCOSITY



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as FUCHS RENOLIN CLP ISO 220, however, a fluid match indicates that this fluid is ISO 150 Gear Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

view report



### 04 Jan 2022 Diag: Kevin Marson

#### VISCOSITY



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as FUCHS RENOLIN CLP ISO 220, however, a fluid match indicates that this fluid is ISO 150 Gear Oil. Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

view report



### 21 Jul 2021 Diag: Kevin Marson

#### VISCOSITY



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

view report





# OIL ANALYSIS REPORT

Sample Rating Trend

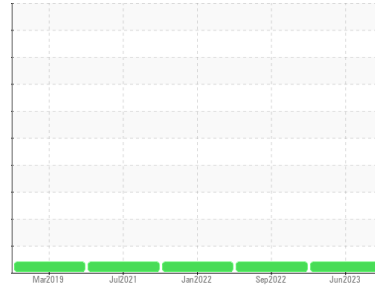
VISCOSITY



Machine Id  
**BELT CONVEYOR FROM SILOS GEARBOX (S/N 0-37200-CVR004)**

Component  
**4 Gearbox**

Fluid  
**FUCHS RENOLIN CLP ISO 220 (--- GAL)**



## 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 150 range, advise investigate. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0822014</b>	WC0706913	WC0647146
Sample Date	Client Info	<b>10 Jun 2023</b>	08 Sep 2022	04 Jan 2022
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## 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
Iron	ppm ASTM D5185(m) >200	<b>41</b>	54	66
Chromium	ppm ASTM D5185(m) >15	<b>0</b>	<1	<1
Nickel	ppm ASTM D5185(m) >15	<b>&lt;1</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >25	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185(m) >100	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >200	<b>&lt;1</b>	0	<1
Tin	ppm ASTM D5185(m) >25	<b>0</b>	0	<1
Antimony	ppm ASTM D5185(m) >5	<b>0</b>	<1	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

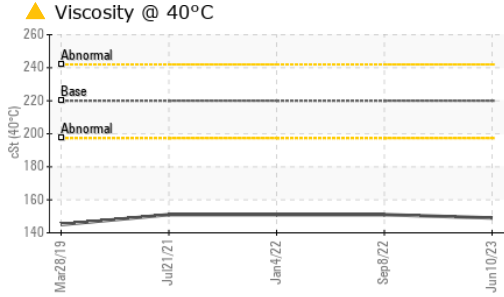
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>12</b>	14	14
Barium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	<1
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m)	<b>6</b>	7	5
Calcium	ppm ASTM D5185(m)	<b>55</b>	76	87
Phosphorus	ppm ASTM D5185(m)	<b>345</b>	405	387
Zinc	ppm ASTM D5185(m)	<b>3</b>	2	2
Sulfur	ppm ASTM D5185(m)	<b>5845</b>	5844	5841
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	<b>14</b>	16	13
Sodium	ppm ASTM D5185(m)	<b>1</b>	1	<1
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1



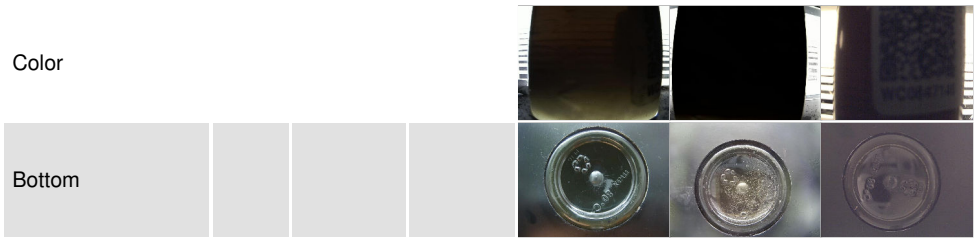
# OIL ANALYSIS REPORT



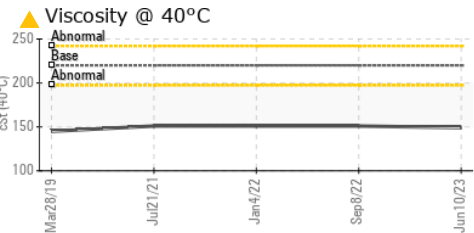
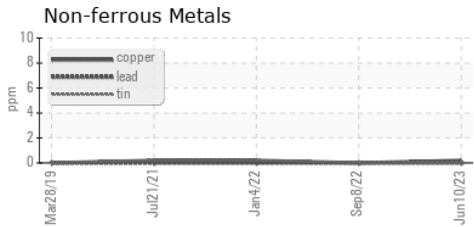
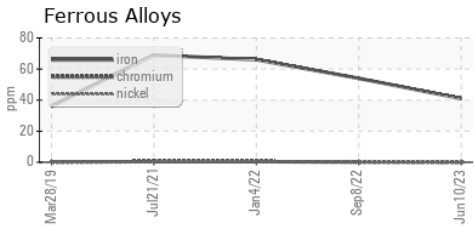
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	220 ▲ 149	▲ 151	▲ 151

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.** : WC0822014 **Recieved** : 19 Dec 2023  
**Lab Number** : 02604207 **Diagnosed** : 19 Dec 2023  
**Unique Number** : 5697292 **Diagnostician** : Kevin Marson  
**Test Package** : IND 1

**Ontario Power Generation**  
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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.