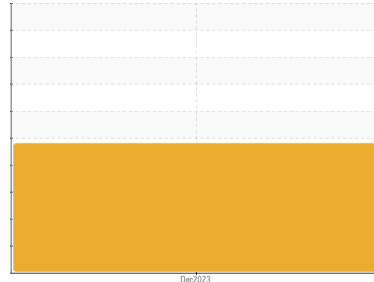




# PROBLEM SUMMARY

Sample Rating Trend



WATER

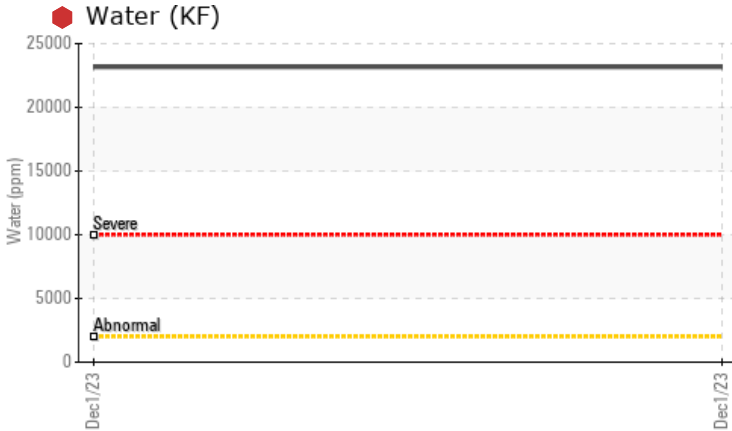


Machine Id  
**SS 2-10**

Component  
**Gearbox**

Fluid  
**GEAR OIL ISO 150 (--- LTR)**

## COMPONENT CONDITION SUMMARY



## 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. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. 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 an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 150. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304*	>0.2	🔴 <b>2.317</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	🔴 <b>23172</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	🟡 <b>.5%</b>	---	---
Free Water	scalar	Visual*		🟡 <b>1%</b>	---	---

Customer Id: EMFMIS  
 Sample No.: WC0877661  
 Lab Number: 02602686  
 Test Package: IND 1



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
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	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.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
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 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.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WATER



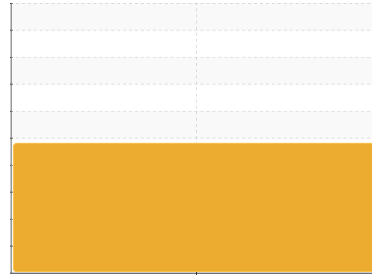
Machine Id  
**SS 2-10**

Component

**Gearbox**

Fluid

**GEAR OIL ISO 150 (--- LTR)**



## 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. We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. 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 an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 150. Please confirm. 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 a high concentration of water present in the oil. Free water present.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0877661</b>	---	---
Sample Date	Client Info		<b>01 Dec 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	<b>120</b>	---
Chromium	ppm	ASTM D5185(m)	>15	<b>1</b>	---
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</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>&lt;1</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

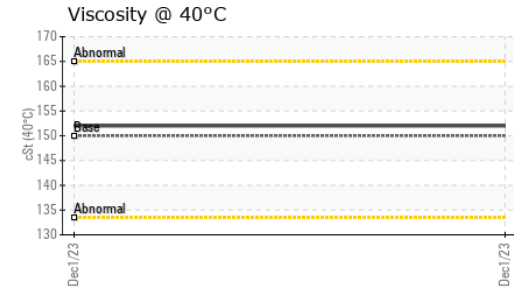
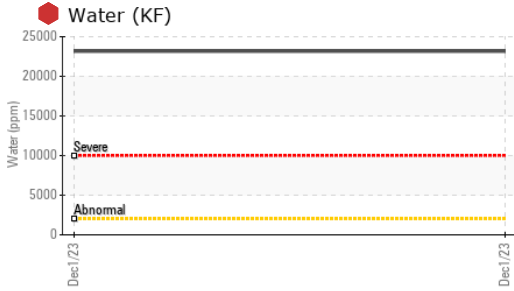
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	<b>14</b>	---
Barium	ppm	ASTM D5185(m)	15	<b>3</b>	---
Molybdenum	ppm	ASTM D5185(m)	15	<b>0</b>	---
Manganese	ppm	ASTM D5185(m)		<b>1</b>	---
Magnesium	ppm	ASTM D5185(m)	50	<b>&lt;1</b>	---
Calcium	ppm	ASTM D5185(m)	50	<b>4</b>	---
Phosphorus	ppm	ASTM D5185(m)	350	<b>228</b>	---
Zinc	ppm	ASTM D5185(m)	100	<b>14</b>	---
Sulfur	ppm	ASTM D5185(m)	12500	<b>13338</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>515</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---
Water	%	ASTM D6304*	>0.2	<b>2.317</b>	---
ppm Water	ppm	ASTM D6304*	>2000	<b>23172</b>	---



# OIL ANALYSIS REPORT



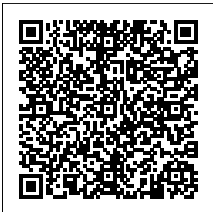
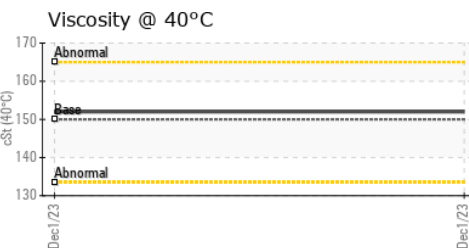
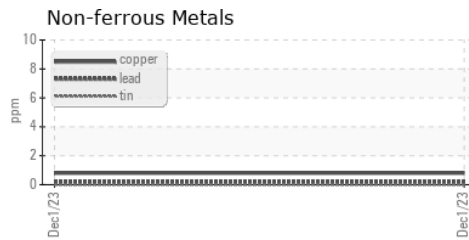
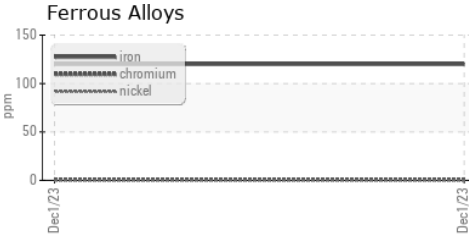
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	▲ <b>.5%</b>	---	---
Free Water	scalar	Visual*		▲ <b>1%</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	150	<b>152</b>	---	---

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.** : WC0877661      **Received** : 12 Dec 2023  
**Lab Number** : **02602686**      **Diagnosed** : 14 Dec 2023  
**Unique Number** : 5695771      **Diagnostician** : Kevin Marson  
**Test Package** : IND 1 ( Additional Tests: KF )

**EMF ELECTRICAL SERVICES**  
 2690 SLOUGH STREET  
 MISSISSAUGA, ON  
 CA L4T 1G3  
 Contact: Wilson  
 Wilson@emfelectrical.ca  
 T: (905)405-8836  
 F:

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.