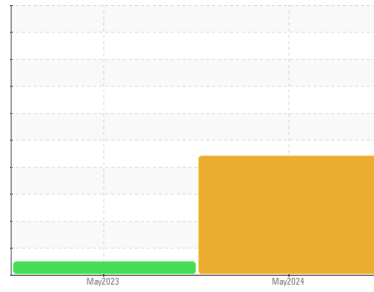




# PROBLEM SUMMARY

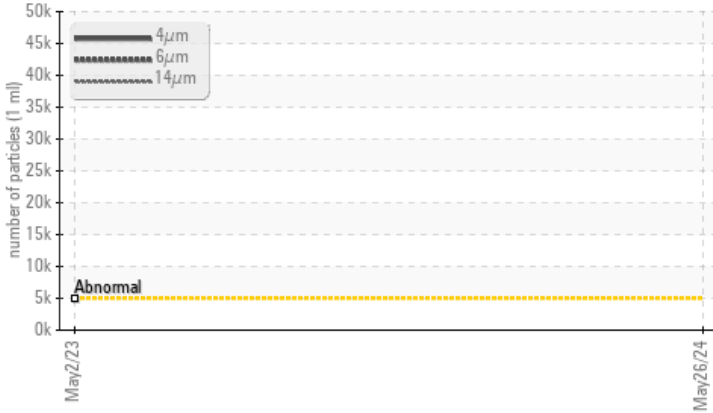
Machine Id  
**SC #2**  
 Component  
**Unknown Component**  
 Fluid  
**{not provided} (--- GAL)**

## Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

Please note that this sample was received without a component ID. 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 all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. Please provide more complete information on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	NORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 48087	---	---
Particles >6µm	ASTM D7647	>1300	▲ 13018	---	---
Particles >14µm	ASTM D7647	>160	▲ 536	---	---
Particles >21µm	ASTM D7647	>40	▲ 90	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/21/16	---	---

Customer Id: VOIOAK  
 Sample No.: WC0916261  
 Lab Number: 02642894  
 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
Change Filter	MISSED	Jun 21 2024	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	MISSED	Jun 21 2024	?	Resample in 30-45 days to monitor this situation.
Alert	MISSED	Jun 21 2024	?	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	MISSED	Jun 21 2024	?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please provide more complete information on your next sample.
Check Breathers	MISSED	Jun 21 2024	?	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 Dirt Access	MISSED	Jun 21 2024	?	We advise that you check all areas where contaminants can enter the system.
Filter Fluid	MISSED	Jun 21 2024	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

## HISTORICAL DIAGNOSIS

NORMAL



### 02 May 2023 Diag: Kevin Marson

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 brand, type, and viscosity of the oil on your next sample. Please provide more complete information on your next sample. Component wear rates appear to be normal (unconfirmed). There is no indication of any contamination in the component (unconfirmed). The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

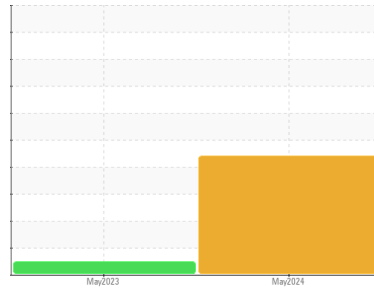
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**SC #2**  
 Component  
**Unknown Component**  
 Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Please note that this sample was received without a component ID. 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 all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. Please provide more complete information on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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 a high amount of particulates (2 to 100 microns in size) present in the sample.

### Fluid Condition

The AN level is acceptable for this fluid. The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0916261</b>	WC0802970	---
Sample Date	Client Info			<b>26 May 2024</b>	02 May 2023	---
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	---
Sample Status				<b>SEVERE</b>	NORMAL	---

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

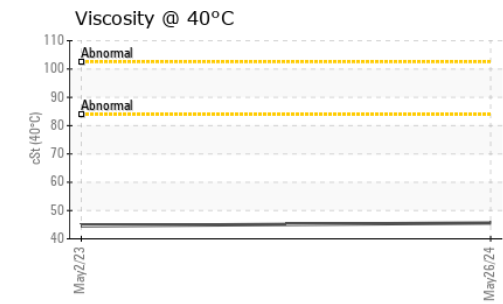
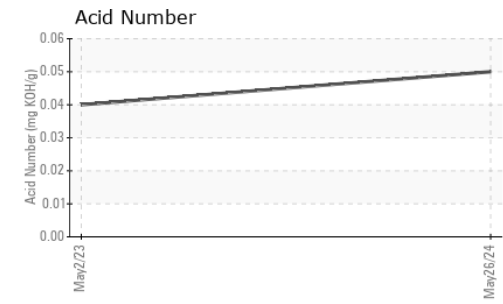
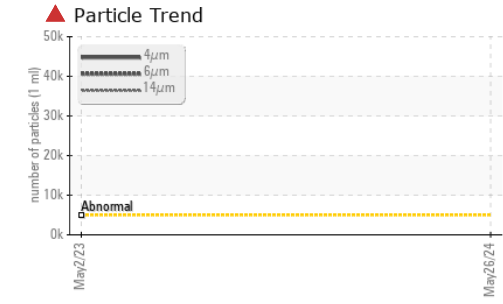
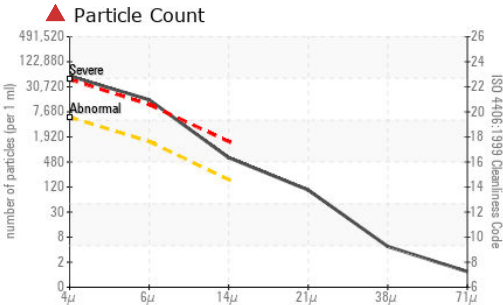
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>0</b>	0	---
Iron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Chromium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185(m)		<b>3</b>	2	---
Copper	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Phosphorus	ppm	ASTM D5185(m)		<b>3</b>	2	---
Zinc	ppm	ASTM D5185(m)		<b>3</b>	2	---
Sulfur	ppm	ASTM D5185(m)		<b>178</b>	700	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

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



# OIL ANALYSIS REPORT



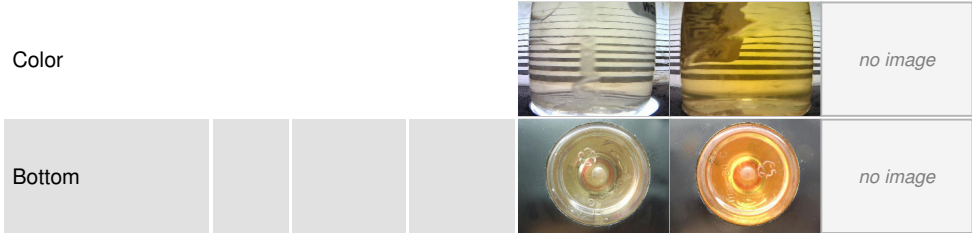
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<span style="color: red;">▲ 48087</span>	---	---
Particles >6µm	ASTM D7647	>1300	<span style="color: red;">▲ 13018</span>	---	---
Particles >14µm	ASTM D7647	>160	<span style="color: yellow;">▲ 536</span>	---	---
Particles >21µm	ASTM D7647	>40	<span style="color: yellow;">▲ 90</span>	---	---
Particles >38µm	ASTM D7647	>10	<b>4</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<span style="color: red;">▲ 23/21/16</span>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.05</b>	0.04	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>45.6</b>	44.6	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0916261 **Received** : 19 Jun 2024  
**Lab Number** : 02642894 **Tested** : 21 Jun 2024  
**Unique Number** : 5800433 **Diagnosed** : 21 Jun 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: PQ, PRTCOUNT )

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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