



# PROBLEM SUMMARY

Sample Rating Trend

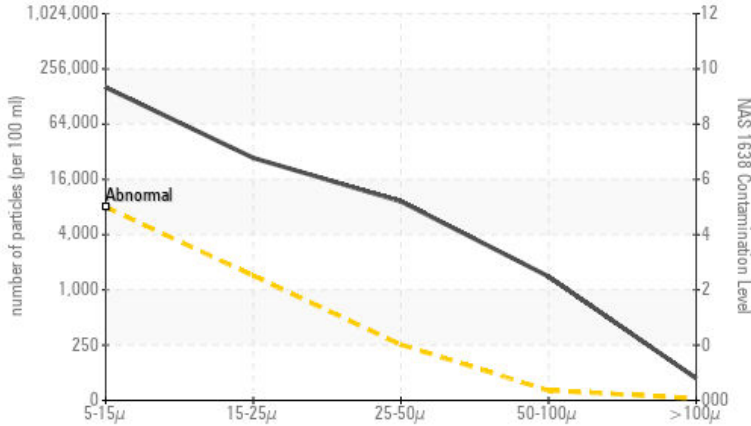
ISO



Area  
**37373 (TRACE PO 36880)**  
 Machine Id  
**08142023A - EGWTS0001**  
 Component  
**Hydraulic System**  
 Fluid  
**{not provided} (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Count



## RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Particles 5-15µm	count	*NAS 1638	>8000	▲ 161100	---	---
Particles 15-25µm	count	*NAS 1638	>1425	▲ 27400	---	---
Particles 25-50µm	count	*NAS 1638	>253	▲ 9200	---	---
Particles 50-100µm	count	*NAS 1638	>45	▲ 1400	---	---
Particles >100µm	count	*NAS 1638	>8	▲ 100	---	---

Customer Id: RIDHAM  
 Sample No.: WC05926958  
 Lab Number: 05926958  
 Test Package: IND 2



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To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**37373 (TRACE PO 36880)**  
 Machine Id  
**08142023A - EGWTS0001**  
 Component  
**Hydraulic System**  
 Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

### Wear

All metal levels are normal indicating no corrosion in the cooling system.

### Contamination

There is a high amount of particulates present in the oil. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code.

### Fluid Condition

The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC05926958</b>	---	---
Sample Date	Client Info	<b>15 Aug 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>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Aluminum ppm	ASTM D5185m >20	<b>1</b>	---	---
Lead ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Copper ppm	ASTM D5185m >20	<b>0</b>	---	---
Tin ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>5</b>	---	---
Molybdenum ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium ppm	ASTM D5185m	<b>9</b>	---	---
Calcium ppm	ASTM D5185m	<b>1</b>	---	---
Phosphorus ppm	ASTM D5185m	<b>4137</b>	---	---
Zinc ppm	ASTM D5185m	<b>0</b>	---	---
Sulfur ppm	ASTM D5185m	<b>41</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<b>5</b>	---	---
Sodium ppm	ASTM D5185m	<b>297</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>10000</b>	---	---
Chlorine ppm	ASTM D5185m	<b>31</b>	---	---

## FLUID CLEANLINESS

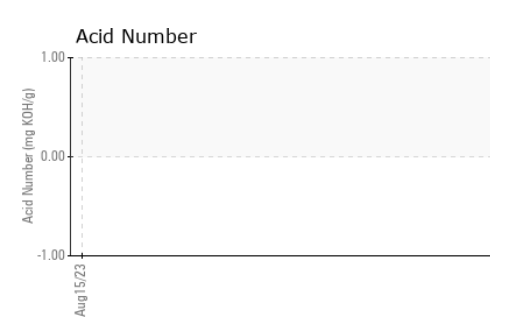
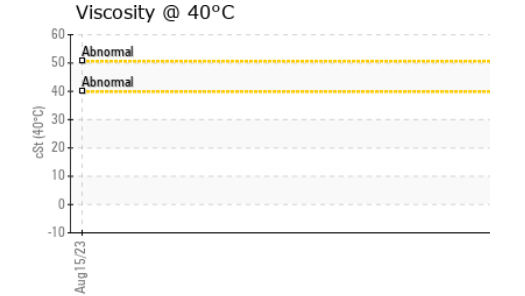
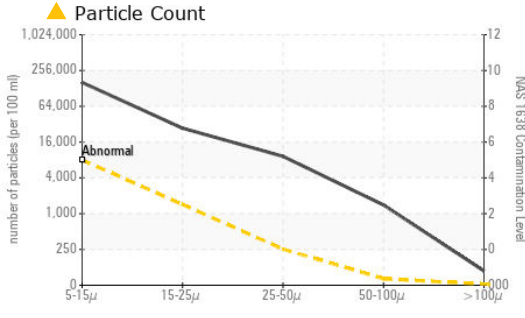
method	limit/base	current	history1	history2
Particles 5-15µm count	*NAS 1638 >8000	<b>▲ 161100</b>	---	---
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Particles 50-100µm count	*NAS 1638 >45	<b>▲ 1400</b>	---	---
Particles >100µm count	*NAS 1638 >8	<b>▲ 100</b>	---	---
NAS 1638 Class	*NAS 1638 >5	<b>11</b>	---	---

## 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 >0.05	<b>NEG</b>	---	---
Free Water scalar	*Visual	<b>NEG</b>	---	---

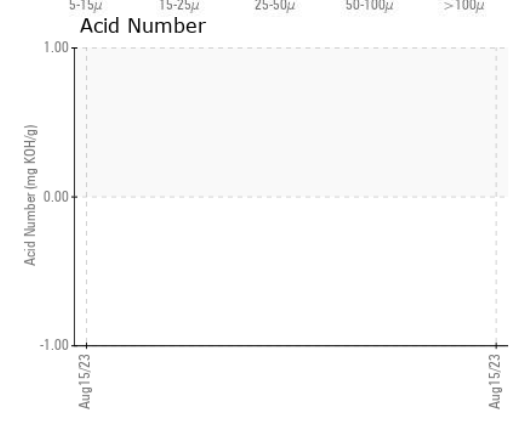
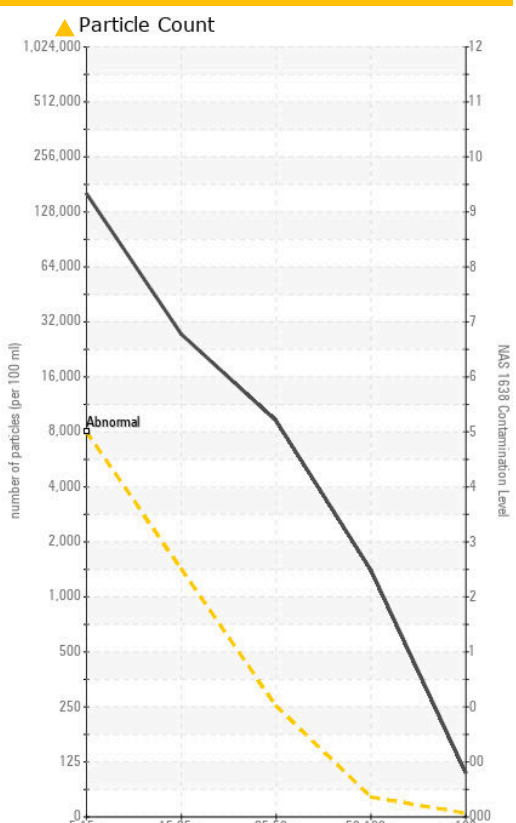
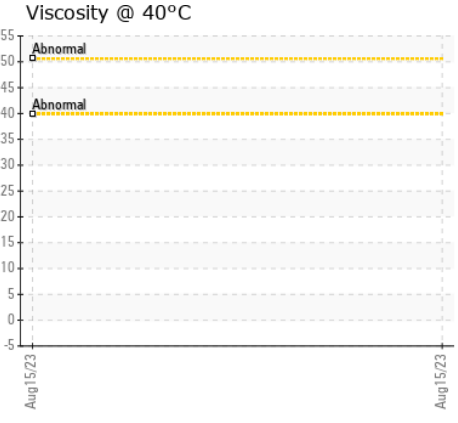
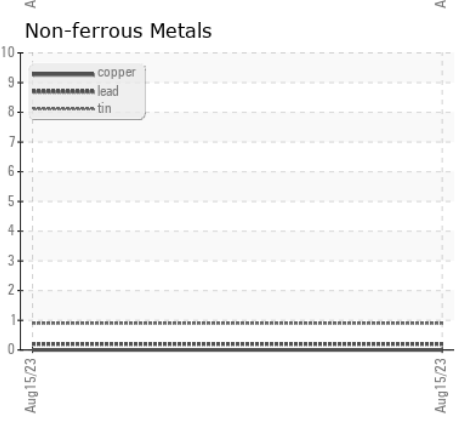
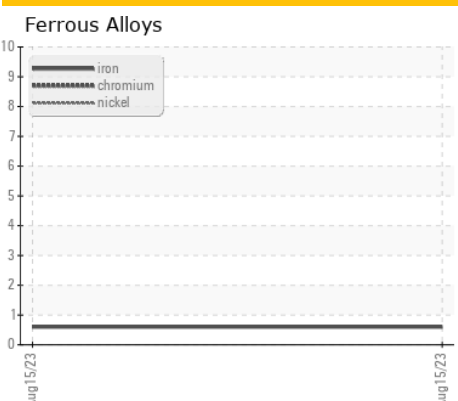


# OIL ANALYSIS REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC05926958 **Received** : 16 Aug 2023  
**Lab Number** : 05926958 **Diagnosed** : 06 Sep 2023  
**Unique Number** : 10606905 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCountNAS )

**RIDGE ENGINEERING**  
 3987 HAMPSTEAD-MEXICO RD  
 HAMPSTEAD, MD  
 US 21074  
 Contact: BETHANY HUGHES\*  
 bethany@ridgeeng.com

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)