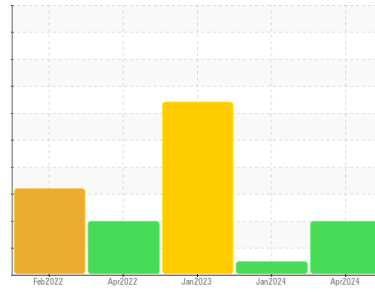




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**DRY END FAN INNER**  
 Component  
**Hydraulic System**  
 Fluid  
**PACEMAKER 68 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a trace of moisture present in the oil.

### Fluid Condition

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>WC0904905</b>	WC0873106	WC0774675
Sample Date	Client Info	<b>04 Apr 2024</b>	24 Jan 2024	18 Jan 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<b>1</b>	1	2
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	3	0
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >20	<b>4</b>	<1	<1
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>1</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>14</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<b>107</b>	2	50
Zinc	ppm	ASTM D5185m	<b>65</b>	<1	0
Sulfur	ppm	ASTM D5185m	<b>378</b>	260	255

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>2</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>2</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	<1
Water	%	ASTM D6304 >0.05	<b>▲ 0.051</b>	---	▲ 0.057
ppm Water	ppm	ASTM D6304 >500	<b>▲ 510</b>	---	▲ 570

## FLUID CLEANLINESS

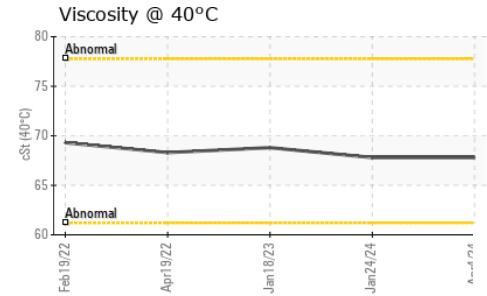
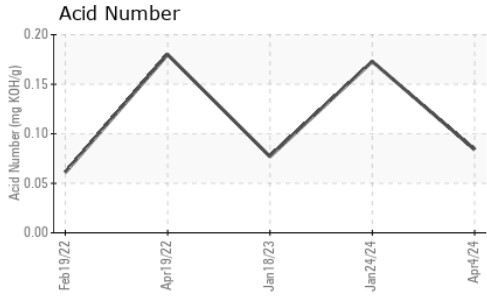
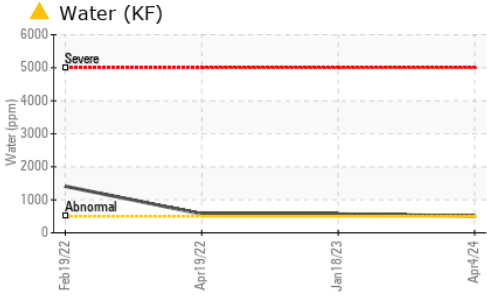
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	---	3499	---
Particles >6µm	ASTM D7647 >1300	---	744	---
Particles >14µm	ASTM D7647 >160	---	35	---
Particles >21µm	ASTM D7647 >40	---	8	---
Particles >38µm	ASTM D7647 >10	---	1	---
Particles >71µm	ASTM D7647 >3	---	1	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	---	19/17/12	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.084</b>	0.173	0.077



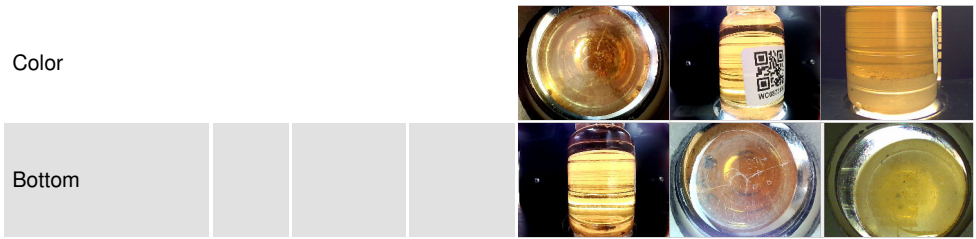
# OIL ANALYSIS REPORT



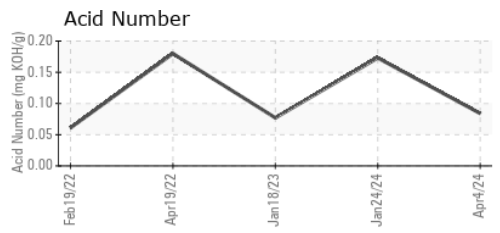
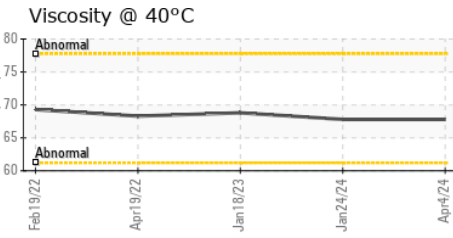
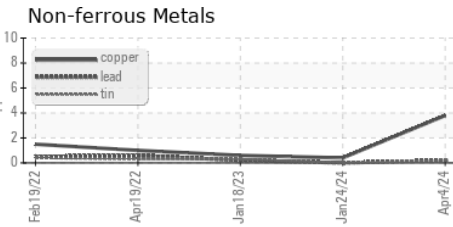
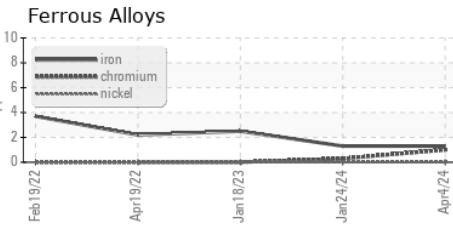
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG
Free Water	scalar	*Visual		NEG	▲ 10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.8	67.8	68.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0904905      **Received** : 08 Apr 2024  
**Lab Number** : 06141270      **Tested** : 10 Apr 2024  
**Unique Number** : 10966078      **Diagnosed** : 10 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**BLUE RIDGE FIBERBOARD**  
 250 KNIGHT CELOTEX DR  
 DANVILLE, VA  
 US 24541  
 Contact: Jerald Caldwell  
 JCaldwell@blueridgefiberboard.com

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)