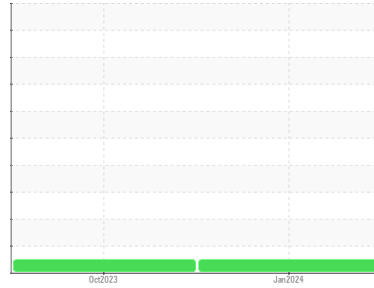




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**SHELL T46**  
 Machine Id  
**JOY BF5781 - MICHELIN 8**  
 Component  
**Gearbox**

## 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

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>UCH06062938</b>	UCH0000231	---
Sample Date	Client Info		<b>10 Jan 2024</b>	10 Oct 2023	---
Machine Age	hrs	Client Info	<b>0</b>	46911	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>3</b>	<1	---
Chromium	ppm	ASTM D5185m >15	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >100	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >200	<b>12</b>	<1	---
Tin	ppm	ASTM D5185m >25	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 4.0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m 2.1	<b>&lt;1</b>	0	---
Zinc	ppm	ASTM D5185m 2.0	<b>6</b>	2	---
Sulfur	ppm	ASTM D5185m 1300	<b>55</b>	0	---

## CONTAMINANTS

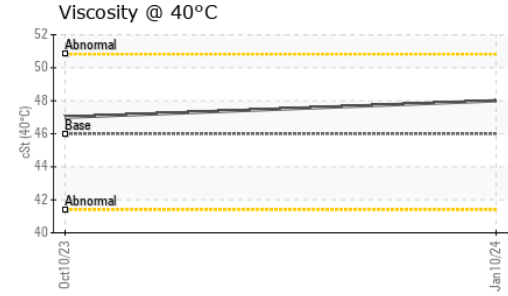
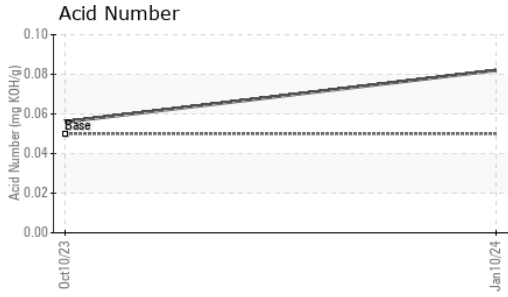
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	---
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 .05	<b>0.082</b>	0.056	---



# OIL ANALYSIS REPORT



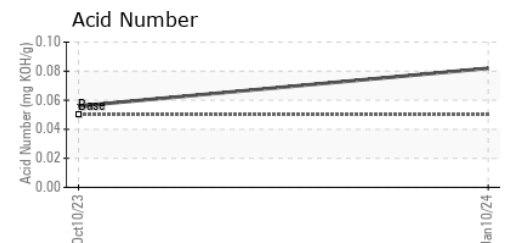
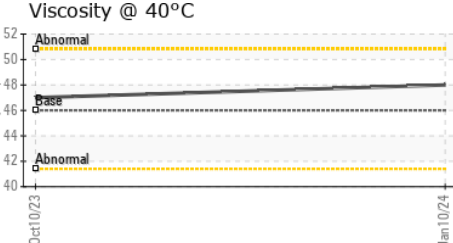
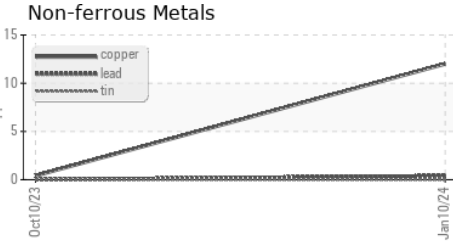
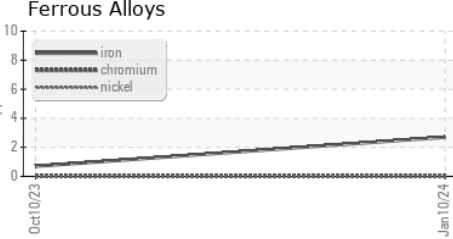
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	<b>48.0</b>	47.0	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06062938 **Received** : 17 Jan 2024  
**Lab Number** : **06062938** **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834320 **Diagnostician** : Wes Davis  
**Test Package** : IND 2

**FLUID FLOW**  
 3915 SHOPTON RD SUITE 101  
 CHARLOTTE, NC  
 US 28217  
 Contact: JOE FREY  
 joefrey@fluidflow.com  
 T:  
 F:

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)