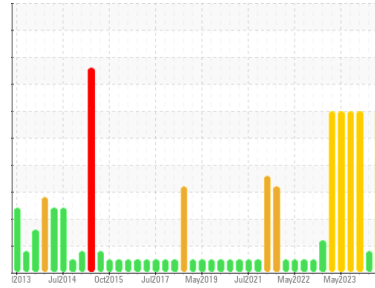




# PROBLEM SUMMARY

Sample Rating Trend



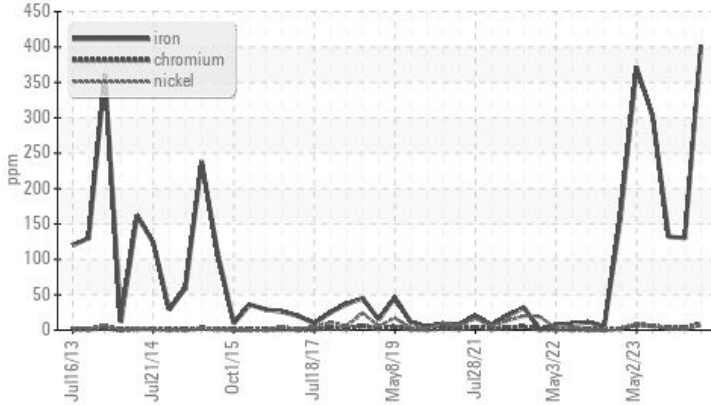
WEAR



Area  
**BLEACH O2**  
Machine Id  
**METSO BX025 PRE02 PRESS NW (S/N 0661-03-02-040-040-090)**  
Component  
**Bearing**  
Fluid  
**Bearing Oil (4 GAL)**

## COMPONENT CONDITION SUMMARY

### Ferrous Alloys



## RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>20	<span style="color:red">●</span> 402	<span style="color:orange">▲</span> 130	<span style="color:red">●</span> 132
Emulsified Water	scalar	*Visual	>2	<span style="color:yellow">▲</span> 0.2%	0.2%	0.2%

Customer Id: INTRIERP  
Sample No.: WC0851721  
Lab Number: 05977745  
Test Package: IND 2



To manage this report scan the QR code

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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 17 Aug 2023 Diag: Don Baldrige

#### WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.

[view report](#)



### 24 Jul 2023 Diag: Don Baldrige

#### WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.

[view report](#)



### 30 May 2023 Diag: Jonathan Hester

#### WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.

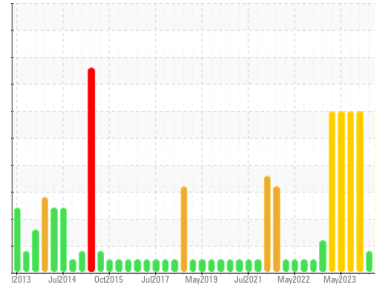
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area  
**BLEACH O2**  
 Machine Id  
**METSO BX025 PRE02 PRESS NW (S/N 0661-03-02-040-040-090)**  
 Component  
**Bearing**  
 Fluid  
**Bearing Oil (4 GAL)**

## DIAGNOSIS

### Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

The iron level is severe.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0851721</b>	WC0760569	WC0760587
Sample Date	Client Info		<b>09 Oct 2023</b>	17 Aug 2023	24 Jul 2023
Machine Age	mls	Client Info	<b>0</b>	0	0
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	ABNORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>402</b>	130	132
Chromium	ppm	ASTM D5185m >20	<b>8</b>	3	3
Nickel	ppm	ASTM D5185m >20	<b>7</b>	1	2
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	<1	<1
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >20	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>3</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Calcium	ppm	ASTM D5185m	<b>1</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<b>429</b>	510	469
Zinc	ppm	ASTM D5185m	<b>2</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>16137</b>	19072	17160

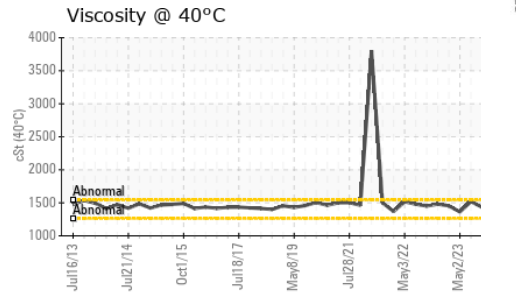
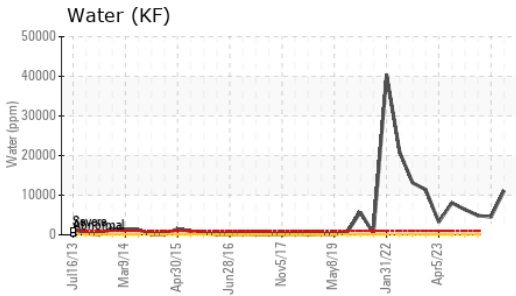
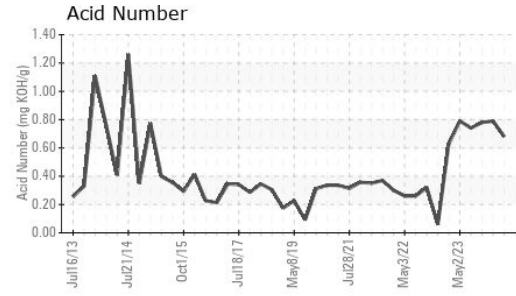
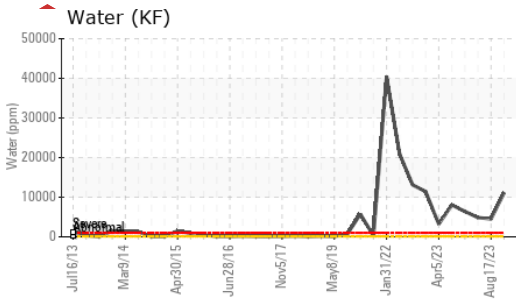
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>12</b>	10	8
Sodium	ppm	ASTM D5185m	<b>29</b>	11	8
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	2
Water	%	ASTM D6304 >2	<b>1.11</b>	0.451	0.485
ppm Water	ppm	ASTM D6304	<b>11100</b>	4510	4850

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.68</b>	0.79	0.78

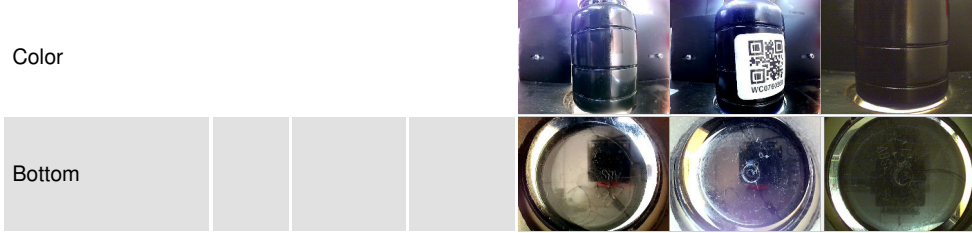
# OIL ANALYSIS REPORT



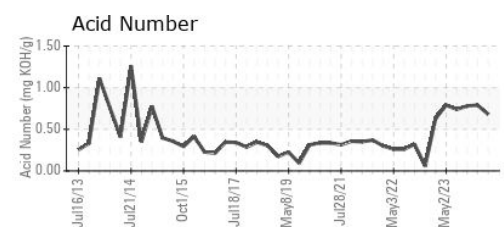
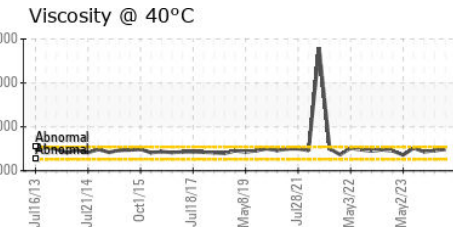
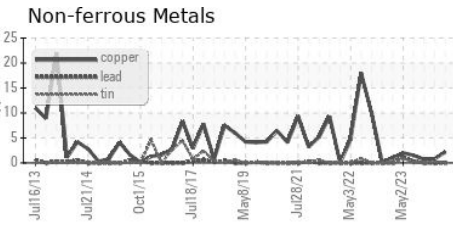
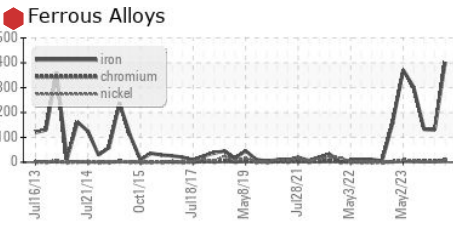
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	▲ 0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	1489	1460	1434

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0851721 **Received** : 12 Oct 2023  
**Lab Number** : 05977745 **Diagnosed** : 13 Oct 2023  
**Unique Number** : 10695040 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF )

**INTERNATIONAL PAPER**  
 865 JOHN L REGEL RD  
 RIEGELWOOD, NC  
 US 28456  
 Contact: Zach Lizana  
 zachary.lizana@ipaper.com  
 T: (910)362-4775  
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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)