



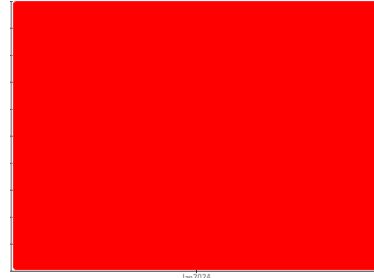
# PROBLEM SUMMARY

Sample Rating Trend

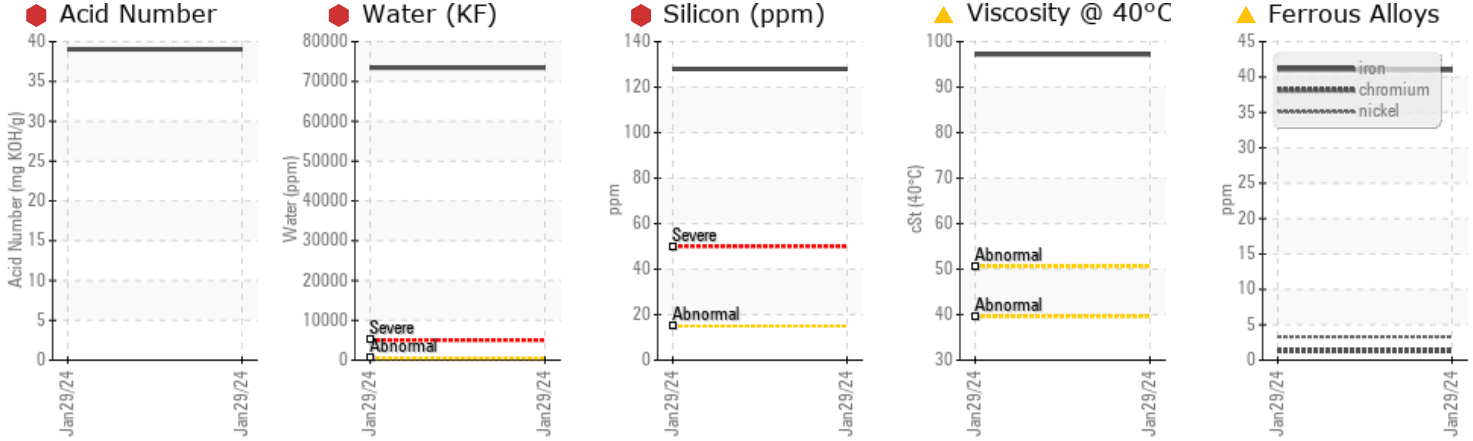
DIRT



Machine Id  
**890**  
Component  
**Hydraulic System**  
Fluid  
**{not provided} (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. Please note that this is a corrected copy for laboratory data update for chlorine. Chlorine 71.7 ppm.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Iron	▲ 41	---	---
Silicon	● 128	---	---
Water	● 7.344	---	---
ppm Water	● 73442	---	---
Acid Number (AN)	● 39.04	---	---
Visc @ 40°C	▲ 97.2	---	---

Customer Id: METYOU  
Sample No.: WC06074737  
Lab Number: 06074737  
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
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



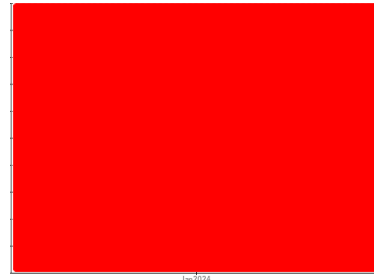
# OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Machine Id  
**890**  
Component  
**Hydraulic System**  
Fluid  
**{not provided} (--- GAL)**



## DIAGNOSIS

### Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. Please note that this is a corrected copy for laboratory data update for chlorine. Chlorine 71.7 ppm.

### Wear

The iron level is abnormal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a high concentration of water present in the oil.

### Fluid Condition

The AN level is above the recommended limit. The oil is no longer serviceable.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC06074737</b>	---	---
Sample Date	Client Info		<b>29 Jan 2024</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>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>▲ 41</b>	---	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	---	---
Nickel	ppm	ASTM D5185m >20	<b>3</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >20	<b>14</b>	---	---
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m >20	<b>1</b>	---	---
Tin	ppm	ASTM D5185m >20	<b>3</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>29</b>	---	---
Barium	ppm	ASTM D5185m	<b>34</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	<b>8</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>87</b>	---	---
Calcium	ppm	ASTM D5185m	<b>257</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>2673</b>	---	---
Zinc	ppm	ASTM D5185m	<b>506</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>294</b>	---	---

## CONTAMINANTS

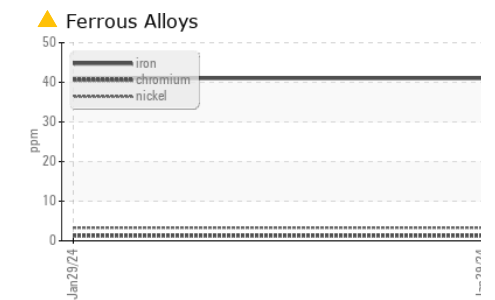
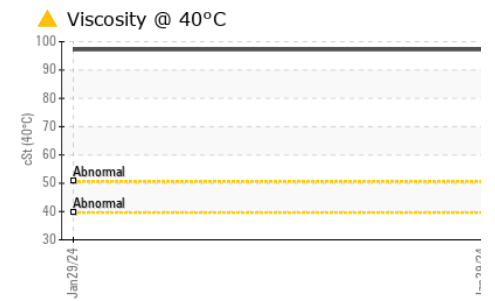
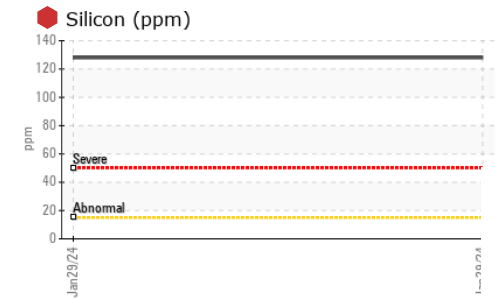
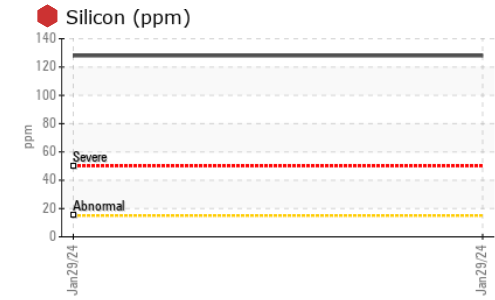
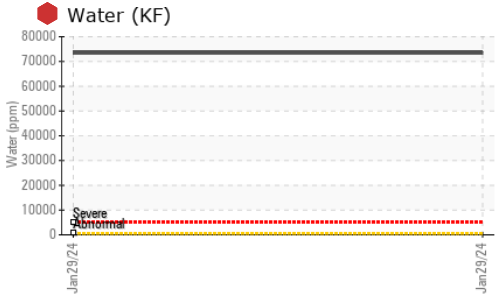
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>● 128</b>	---	---
Sodium	ppm	ASTM D5185m	<b>117</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>134</b>	---	---
Chlorine Content	ppm	ASTM D5185m	<b>71.7</b>	---	---
Water	%	ASTM D6304 >0.05	<b>● 7.344</b>	---	---
ppm Water	ppm	ASTM D6304 >500	<b>● 73442</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>● 39.04</b>	---	---



# OIL ANALYSIS REPORT



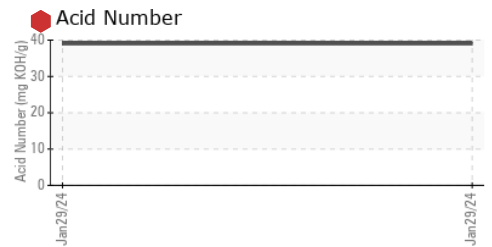
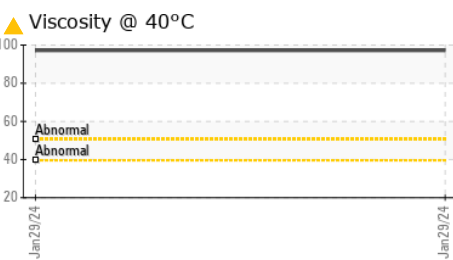
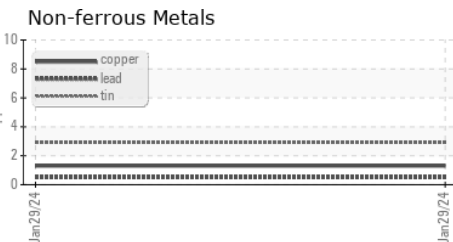
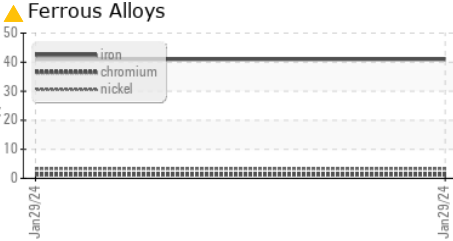
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	▲ 97.2	---	---

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.** : WC06074737      **Received** : 30 Jan 2024  
**Lab Number** : 06074737      **Tested** : 09 Feb 2024  
**Unique Number** : 10856828      **Diagnosed** : 09 Feb 2024 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: CHLORINEXRF, KF )

**METALUBE INC**  
 56 CYPRESS DR  
 YOUNGSVILLE, NC  
 US 27596  
 Contact: AUSTIN AMARAL  
 aamaral@metalubeinc.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)      T: (919)554-3023