

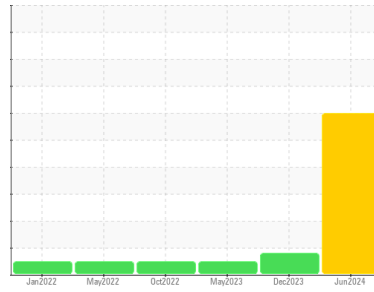


# PROBLEM SUMMARY



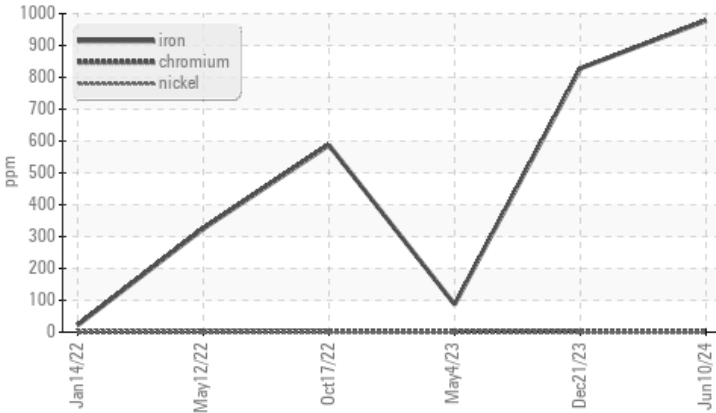
Area  
**COLORADO/443**  
 Machine Id  
**46.105L [COLORADO^443]**  
 Component  
**Front Differential**  
 Fluid  
**MOBIL MOBILFLUID 424 (10 GAL)**

## Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	ABNORMAL	NORMAL
Iron	▲ 978	▲ 828	87

Customer Id: SHEWIC  
 Sample No.: WC0928675  
 Lab Number: 06208185  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR



**21 Dec 2023 Diag: Don Baldrige**

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



NORMAL



**04 May 2023 Diag: Angela Borella**

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



NORMAL



**17 Oct 2022 Diag: Don Baldrige**

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



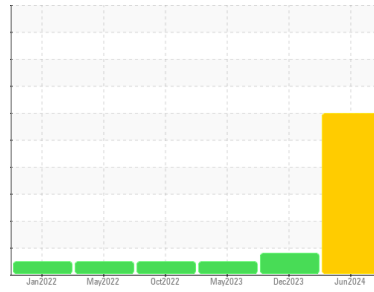


# OIL ANALYSIS REPORT



Area  
**COLORADO/443**  
 Machine Id  
**46.105L [COLORADO^443]**  
 Component  
**Front Differential**  
 Fluid  
**MOBIL MOBILFLUID 424 (10 GAL)**

Sample Rating Trend



**WEAR**



## DIAGNOSIS

### ▲ Recommendation

We recommend an early resample to monitor this condition.

### ▲ Wear

The iron level is severe for time on oil.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0928675</b>	WC0884058	WC0799161
Sample Date	Client Info		<b>10 Jun 2024</b>	21 Dec 2023	04 May 2023
Machine Age	hrs	Client Info	<b>2523</b>	1977	1434
Oil Age	hrs	Client Info	<b>546</b>	0	1434
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status			<b>SEVERE</b>	ABNORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>▲ 978</b>	▲ 828	87
Chromium	ppm	ASTM D5185m >3	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>4</b>	5	3
Lead	ppm	ASTM D5185m >13	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m >103	<b>14</b>	18	8
Tin	ppm	ASTM D5185m >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>31</b>	<1	3
Barium	ppm	ASTM D5185m	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	<b>21</b>	8	6
Manganese	ppm	ASTM D5185m	<b>10</b>	10	2
Magnesium	ppm	ASTM D5185m	<b>11</b>	8	10
Calcium	ppm	ASTM D5185m	<b>2960</b>	3219	3489
Phosphorus	ppm	ASTM D5185m	<b>895</b>	872	910
Zinc	ppm	ASTM D5185m	<b>1171</b>	1006	1128
Sulfur	ppm	ASTM D5185m	<b>4865</b>	3919	4474

## CONTAMINANTS

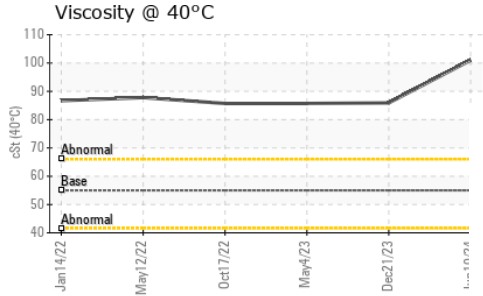
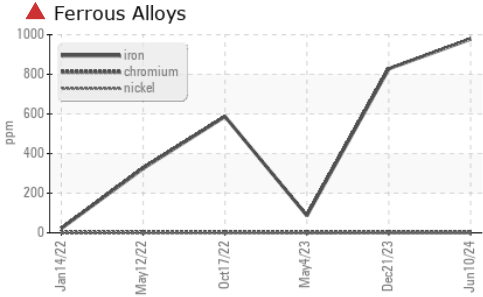
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	<b>16</b>	18	13
Sodium	ppm	ASTM D5185m	<b>1</b>	3	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	<1

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT



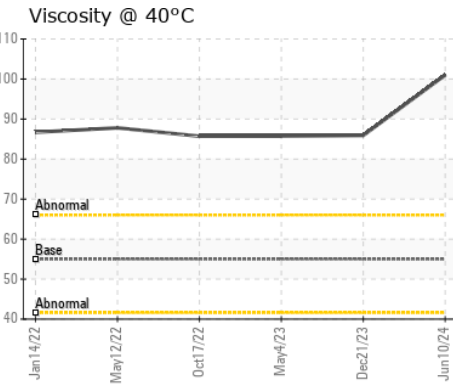
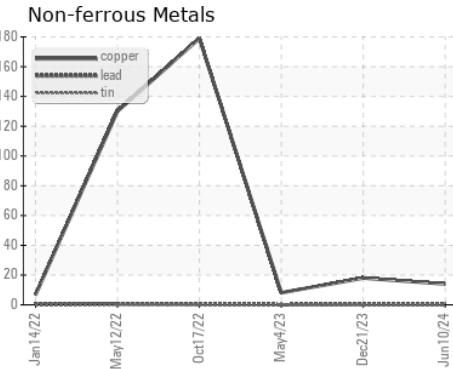
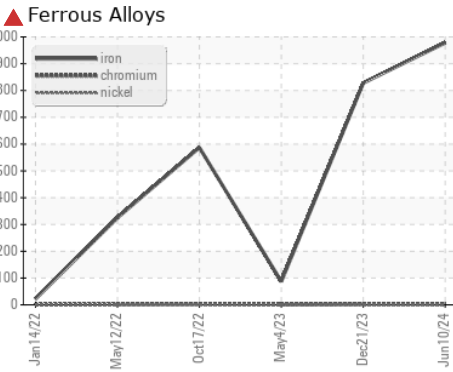
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 55	<b>101</b>	85.9	85.7

## SAMPLE IMAGES

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0928675  
**Lab Number** : **06208185**  
**Unique Number** : 11075646  
**Test Package** : CONST  
**Received** : 12 Jun 2024  
**Tested** : 14 Jun 2024  
**Diagnosed** : 14 Jun 2024 - Don Baldrige

**SHERWOOD CONSTRUCTION CO INC**  
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 WICHITA, KS  
 US 67213  
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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)