

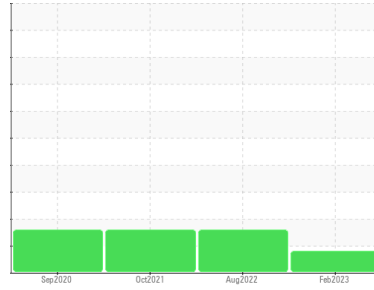


# PROBLEM SUMMARY



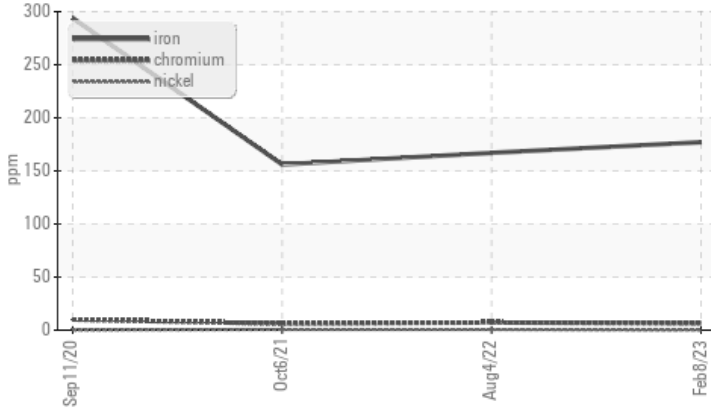
Area  
**KANSAS/44/DR - MOTOR GRADER**  
 Machine Id  
**78.69 [KANSAS^44^DR - MOTOR GRADER]**  
 Component  
**Front Right Wheel Bearing**  
 Fluid  
**MOBIL MOBILTRANS HD 50 (0 GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

No corrective action is recommended at this time.  
 Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	Iron	Chromium	Nickel
ASTM D5185m >100	<b>ABNORMAL</b> ▲ 177	<b>ABNORMAL</b> ▲ 167	<b>ABNORMAL</b> ▲ 156

Customer Id: SHEWIC  
 Sample No.: WC0779813  
 Lab Number: 05767449  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 04 Aug 2022 Diag: Don Baldrige

WEAR



The oil change at the time of sampling has been noted. 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



### 06 Oct 2021 Diag: Don Baldrige

WEAR



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



### 11 Sep 2020 Diag: Don Baldrige

WEAR



The oil change at the time of sampling has been noted. 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



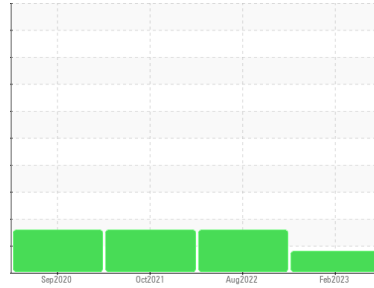


# OIL ANALYSIS REPORT



Area  
**KANSAS/44/DR - MOTOR GRADER**  
 Machine Id  
**78.69 [KANSAS^44^DR - MOTOR GRADER]**  
 Component  
**Front Right Wheel Bearing**  
 Fluid  
**MOBIL MOBILTRANS HD 50 (0 GAL)**

Sample Rating Trend



## DIAGNOSIS

- Recommendation**  
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**  
The iron level is abnormal. All other component wear rates are normal.
- 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>WC0779813</b>	WC0697676	WC0585814
Sample Date	Client Info		<b>08 Feb 2023</b>	04 Aug 2022	06 Oct 2021
Machine Age	hrs	Client Info	<b>10539</b>	10081	9581
Oil Age	hrs	Client Info	<b>443</b>	9151	434
Oil Changed	Client Info		<b>N/A</b>	Changed	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>▲ 177</b>	▲ 167	▲ 156
Chromium	ppm	ASTM D5185m >20	<b>6</b>	7	6
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>19</b>	▲ 26	▲ 26
Lead	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	7	4
Barium	ppm	ASTM D5185m	<b>3</b>	<1	2
Molybdenum	ppm	ASTM D5185m	<b>8</b>	9	7
Manganese	ppm	ASTM D5185m	<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m	<b>12</b>	12	12
Calcium	ppm	ASTM D5185m	<b>3076</b>	3117	3225
Phosphorus	ppm	ASTM D5185m	<b>1028</b>	986	1049
Zinc	ppm	ASTM D5185m	<b>1242</b>	1224	1242
Sulfur	ppm	ASTM D5185m	<b>9036</b>	11587	10769

## CONTAMINANTS

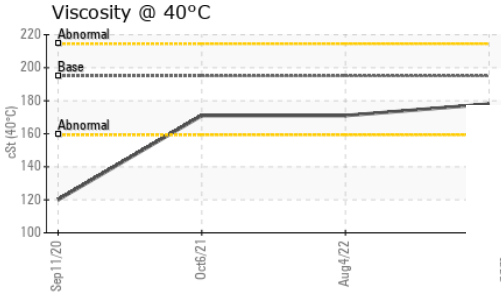
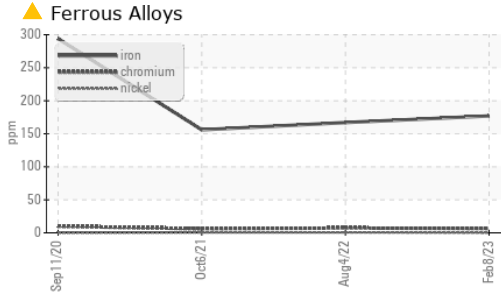
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>19</b>	17	15
Sodium	ppm	ASTM D5185m	<b>1</b>	4	5
Potassium	ppm	ASTM D5185m >20	<b>4</b>	1	4

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	MODER	LIGHT
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 >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT



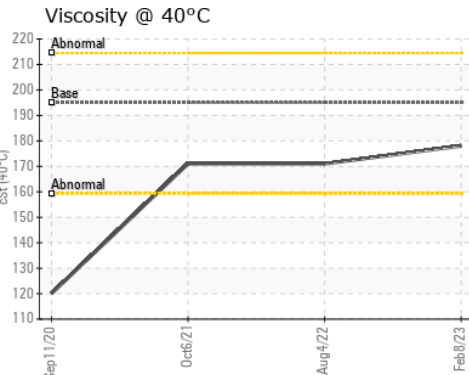
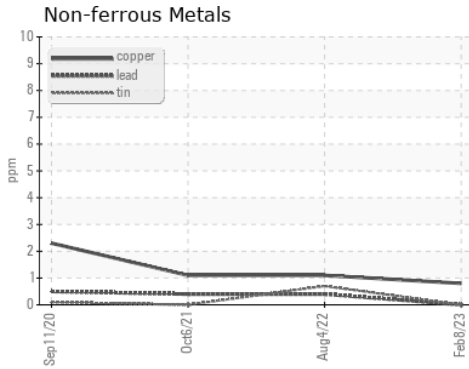
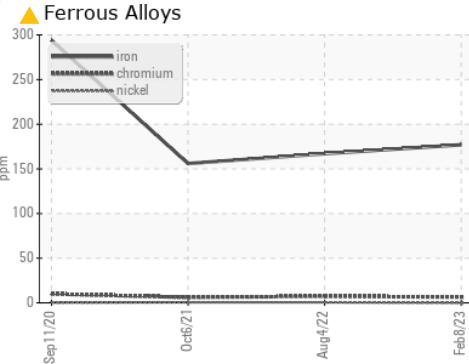
FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D445	195	<b>178</b>	171	171
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SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0779813  
**Lab Number** : **05767449**  
**Unique Number** : 10337057  
**Test Package** : CONST

**Received** : 14 Feb 2023  
**Diagnosed** : 16 Feb 2023  
**Diagnostician** : Sean Felton

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: TRENTON HAJEK  
 Trenton.hajek@wildcat.net  
 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)