

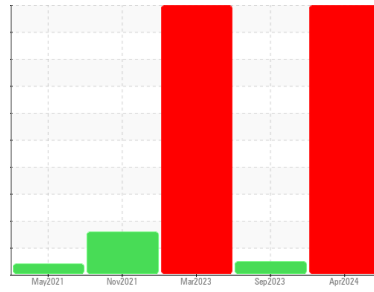


# PROBLEM SUMMARY



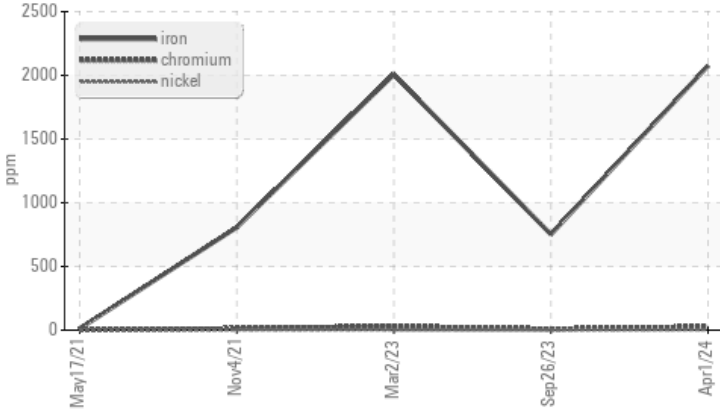
Area  
**KANSAS/44**  
Machine Id  
**53.155L [KANSAS^44]**  
Component  
**Right Final Drive**  
Fluid  
**MOBIL MOBILUBE HD PLUS 75W90 (0 GAL)**

Sample Rating Trend

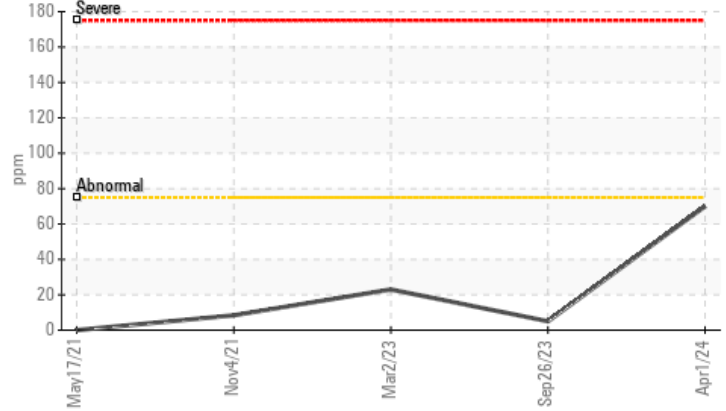


## COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Aluminum (ppm)



## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. 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	NORMAL	SEVERE
Iron	ppm	ASTM D5185m	>800	▲ 2075	752	▲ 2007
Chromium	ppm	ASTM D5185m	>10	▲ 28	9	▲ 30
Aluminum	ppm	ASTM D5185m	>75	▲ 70	5	● 23

Customer Id: SHEWIC  
Sample No.: WC0918132  
Lab Number: 06143403  
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@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.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### NORMAL



#### 26 Sep 2023 Diag: Jonathan Hester

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](#)



### WEAR



#### 02 Mar 2023 Diag: Don Baldrige

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

[view report](#)



### WEAR



#### 04 Nov 2021 Diag: Jonathan Hester

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



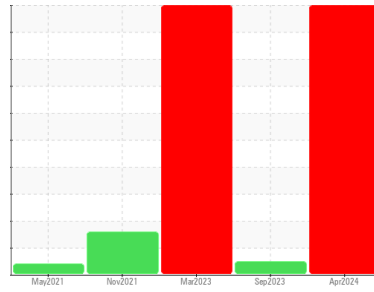


# OIL ANALYSIS REPORT



Area  
**KANSAS/44**  
Machine Id  
**53.155L [KANSAS^44]**  
Component  
**Right Final Drive**  
Fluid  
**MOBIL MOBILUBE HD PLUS 75W90 (0 GAL)**

Sample Rating Trend



## DIAGNOSIS

### ▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### ▲ Wear

Gear wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0918132</b>	WC0833839	WC0779834
Sample Date	Client Info		<b>01 Apr 2024</b>	26 Sep 2023	02 Mar 2023
Machine Age	hrs	Client Info	<b>2238</b>	1846	1367
Oil Age	hrs	Client Info	<b>0</b>	460	814
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	NORMAL	SEVERE

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>▲ 2075</b>	752	▲ 2007
Chromium	ppm	ASTM D5185m >10	<b>▲ 28</b>	9	▲ 30
Nickel	ppm	ASTM D5185m >5	<b>3</b>	<1	2
Titanium	ppm	ASTM D5185m >15	<b>4</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >75	<b>▲ 70</b>	5	23
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >75	<b>22</b>	17	34
Tin	ppm	ASTM D5185m >8	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m >50	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>335</b>	456	146
Barium	ppm	ASTM D5185m	<b>4</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>2</b>	<1	1
Manganese	ppm	ASTM D5185m	<b>17</b>	5	15
Magnesium	ppm	ASTM D5185m	<b>9</b>	2	7
Calcium	ppm	ASTM D5185m	<b>47</b>	12	37
Phosphorus	ppm	ASTM D5185m	<b>1695</b>	1462	1697
Zinc	ppm	ASTM D5185m	<b>22</b>	12	38
Sulfur	ppm	ASTM D5185m	<b>23343</b>	19562	25056

## CONTAMINANTS

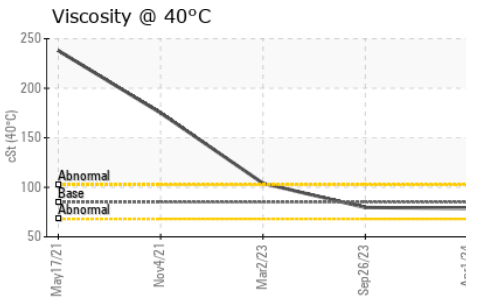
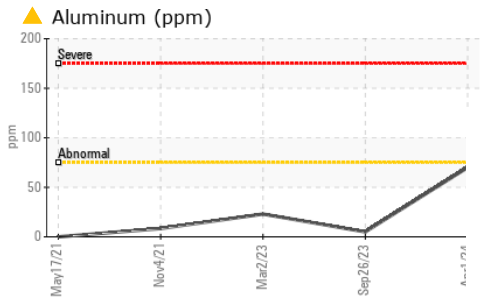
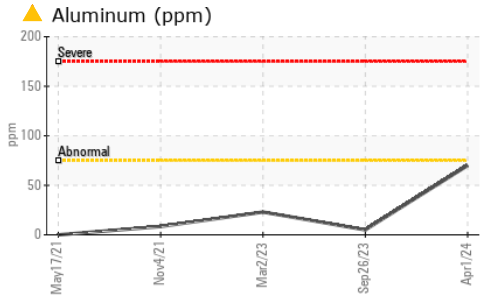
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>340</b>	18	▲ 115
Sodium	ppm	ASTM D5185m	<b>15</b>	3	14
Potassium	ppm	ASTM D5185m >20	<b>29</b>	4	16

## 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 >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT

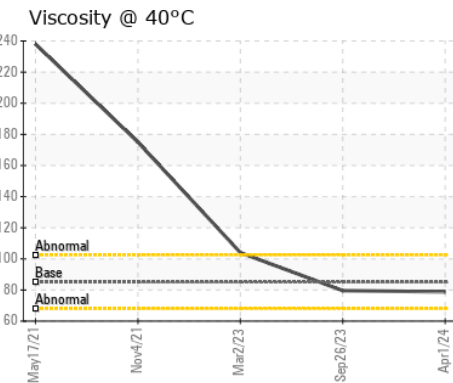
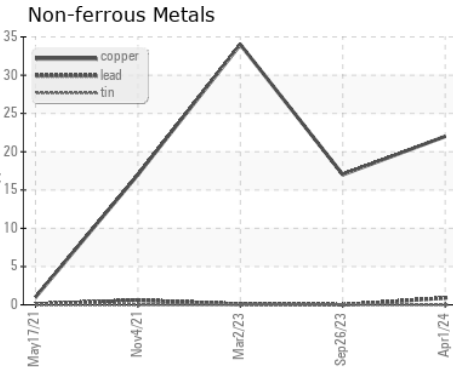
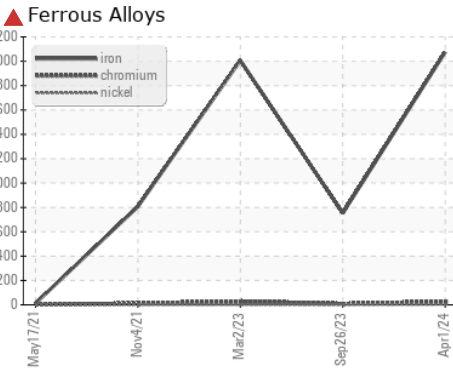


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	85	<b>78.8</b>	79.6	104

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.** : WC0918132  
**Lab Number** : 06143403  
**Unique Number** : 10968211  
**Test Package** : CONST

**Received** : 09 Apr 2024  
**Tested** : 10 Apr 2024  
**Diagnosed** : 12 Apr 2024 - Jonathan Hester

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 Doug.King@sherwood.net

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:  
F: