



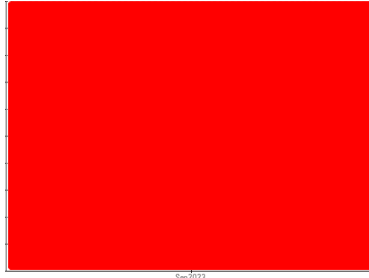
# PROBLEM SUMMARY

Sample Rating Trend

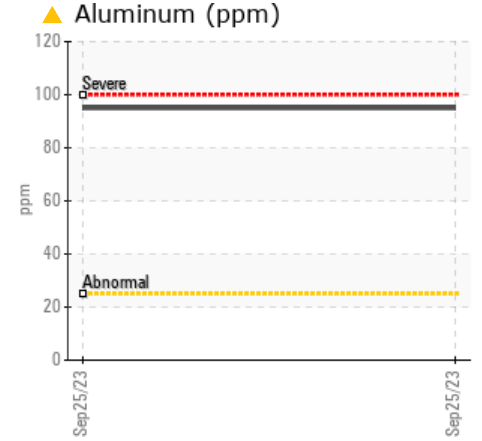
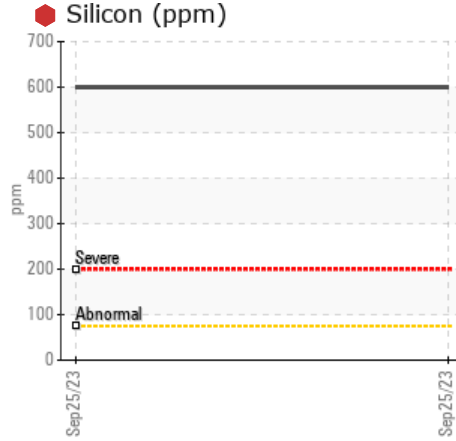
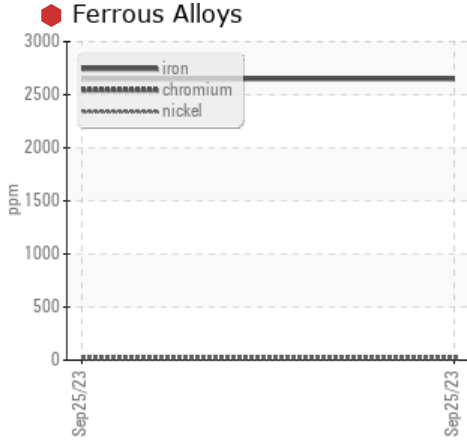
WEAR



Area  
**KANSAS/88**  
 Machine Id  
**53.167L [KANSAS^88]**  
 Component  
**Right Final Drive**  
 Fluid  
**MOBIL 75W90 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	2649	---	---
Chromium	ppm	ASTM D5185m	>10	22	---	---
Nickel	ppm	ASTM D5185m		21	---	---
Aluminum	ppm	ASTM D5185m	>25	95	---	---
Silicon	ppm	ASTM D5185m	>75	600	---	---

Customer Id: SHEWIC  
 Sample No.: WC0665277  
 Lab Number: 05961497  
 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
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.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS

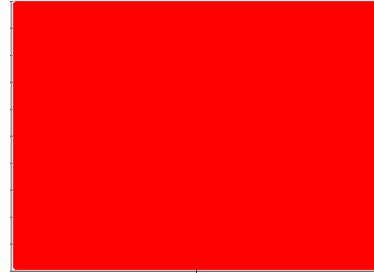


# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area  
**KANSAS/88**  
 Machine Id  
**53.167L [KANSAS^88]**  
 Component  
**Right Final Drive**  
 Fluid  
**MOBIL 75W90 (--- GAL)**



## DIAGNOSIS

### Recommendation

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.

### Wear

Gear wear is indicated.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0665277</b>	---	---
Sample Date	Client Info		<b>25 Sep 2023</b>	---	---
Machine Age	hrs	Client Info	<b>2643</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	>500	<b>2649</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>22</b>	---
Nickel	ppm	ASTM D5185m		<b>21</b>	---
Titanium	ppm	ASTM D5185m		<b>6</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>95</b>	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m	>50	<b>4</b>	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>10</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>5</b>	---
Manganese	ppm	ASTM D5185m		<b>19</b>	---
Magnesium	ppm	ASTM D5185m		<b>17</b>	---
Calcium	ppm	ASTM D5185m		<b>125</b>	---
Phosphorus	ppm	ASTM D5185m		<b>135</b>	---
Zinc	ppm	ASTM D5185m		<b>19</b>	---
Sulfur	ppm	ASTM D5185m		<b>18465</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>600</b>	---
Sodium	ppm	ASTM D5185m		<b>17</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>37</b>	---

## VISUAL

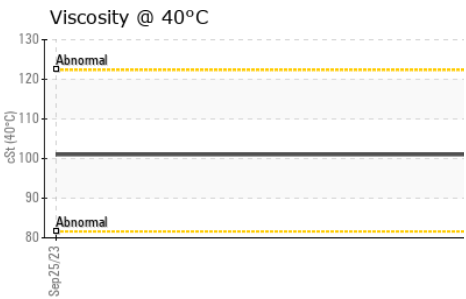
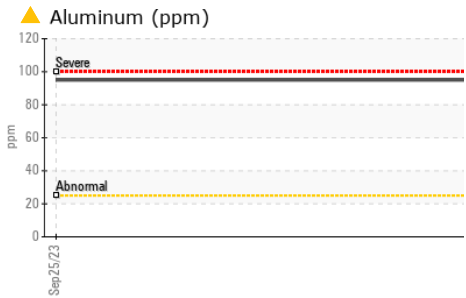
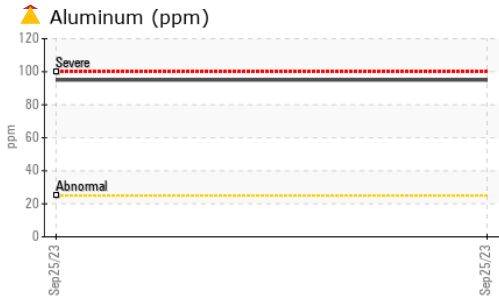
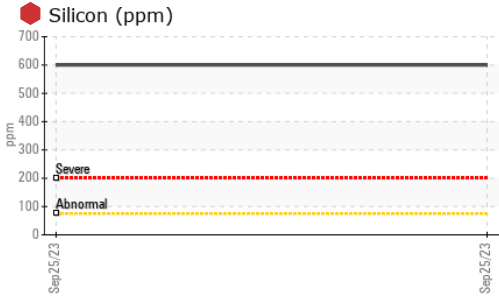
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual	NONE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

## FLUID PROPERTIES

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

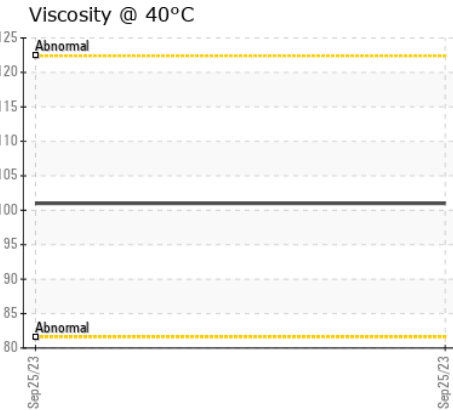
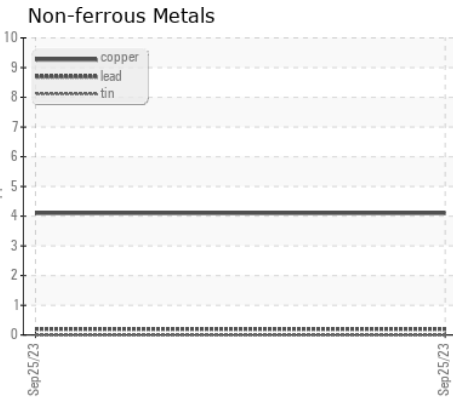
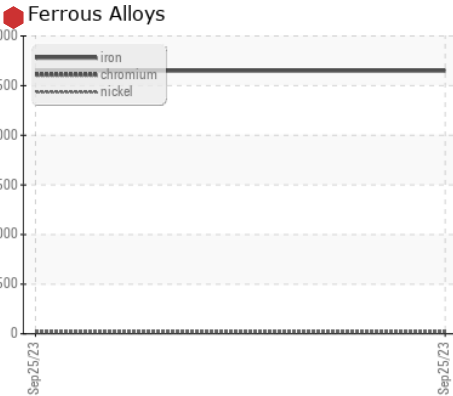


# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
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.** : WC0665277  
**Lab Number** : 05961497  
**Unique Number** : 10662710  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
 F: x:

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)