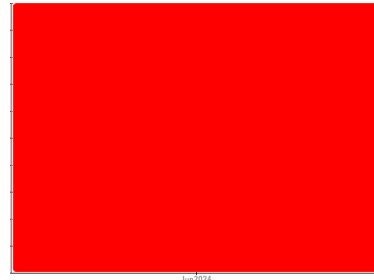




# PROBLEM SUMMARY

Sample Rating Trend

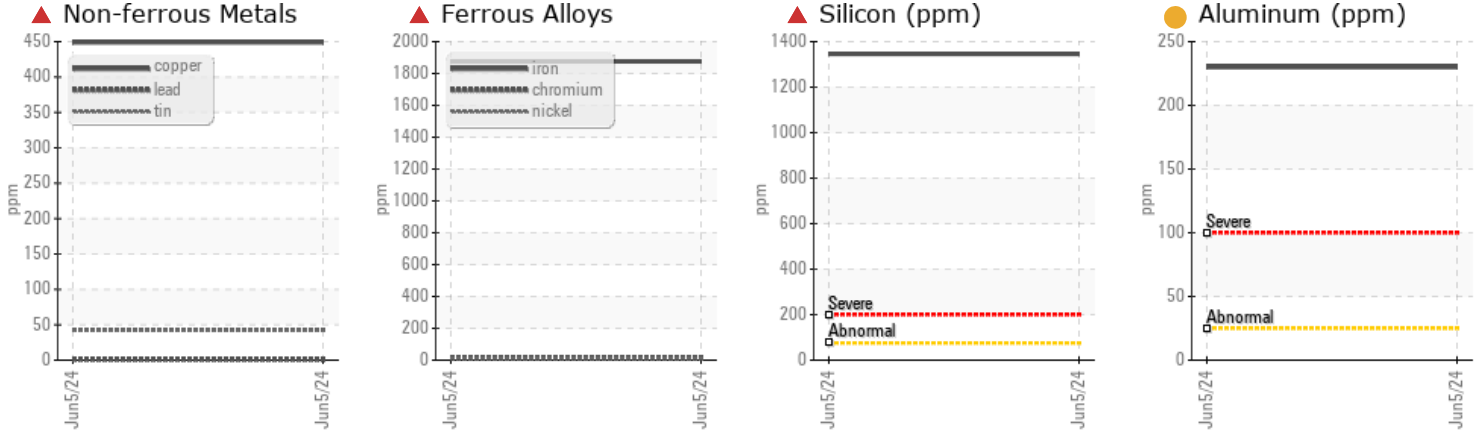


**WEAR**



Area  
**[23810]**  
 Machine Id  
**60-07**  
 Component  
**Right Final Drive**  
 Fluid  
**CONOCO PHILLIPS 80W90 MP (--- 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. ( Customer Sample Comment: ConocoPhillips mp gear oil 80w/90 )

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Iron ppm ASTM D5185m >500	▲ 1876	---	---
Chromium ppm ASTM D5185m >10	▲ 16	---	---
Titanium ppm ASTM D5185m	▲ 16	---	---
Copper ppm ASTM D5185m >50	▲ 449	---	---
Tin ppm ASTM D5185m >10	▲ 42	---	---
Silicon ppm ASTM D5185m >75	▲ 1346	---	---

Customer Id: MANTUL  
 Sample No.: WC0940692  
 Lab Number: 06220071  
 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

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



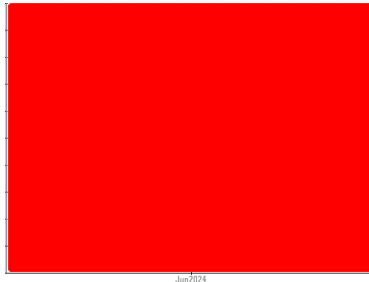
# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area  
**[23810]**  
 Machine Id  
**60-07**  
 Component  
**Right Final Drive**  
 Fluid  
**CONOCO PHILLIPS 80W90 MP (--- 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. ( Customer Sample Comment: ConocoPhillips mp gear oil 80w/90 )

### ▲ Wear

Bearing and/or 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>WC0940692</b>	---	---
Sample Date	Client Info		<b>05 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>7530</b>	---	---
Oil Age	hrs	Client Info	<b>547</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>▲ 1876</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>▲ 16</b>	---
Nickel	ppm	ASTM D5185m	>10	<b>10</b>	---
Titanium	ppm	ASTM D5185m		<b>▲ 16</b>	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>● 230</b>	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m	>50	<b>▲ 449</b>	---
Tin	ppm	ASTM D5185m	>10	<b>▲ 42</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>9</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>1</b>	---
Manganese	ppm	ASTM D5185m		<b>15</b>	---
Magnesium	ppm	ASTM D5185m		<b>34</b>	---
Calcium	ppm	ASTM D5185m		<b>286</b>	---
Phosphorus	ppm	ASTM D5185m		<b>314</b>	---
Zinc	ppm	ASTM D5185m		<b>101</b>	---
Sulfur	ppm	ASTM D5185m		<b>16745</b>	---

## CONTAMINANTS

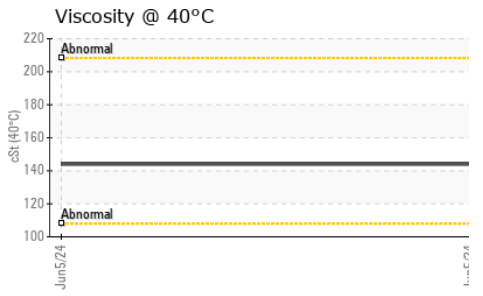
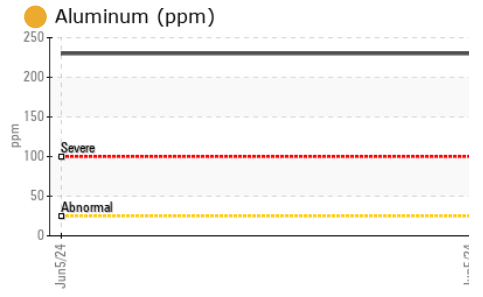
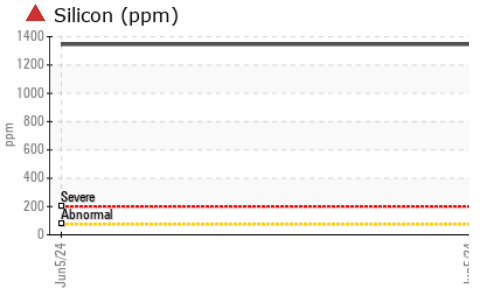
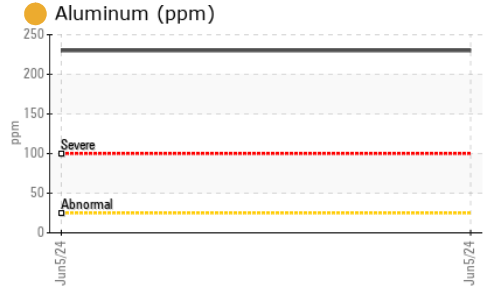
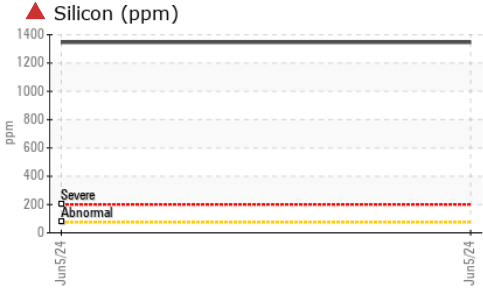
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>▲ 1346</b>	---
Sodium	ppm	ASTM D5185m		<b>26</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>73</b>	---

## 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>MODER</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>	---



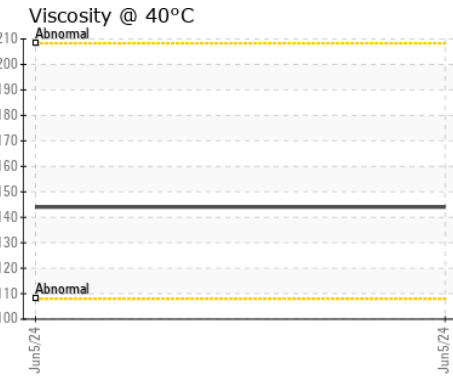
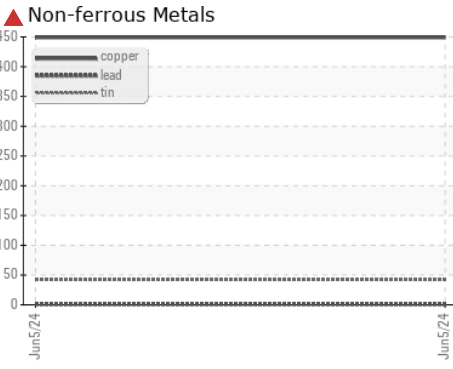
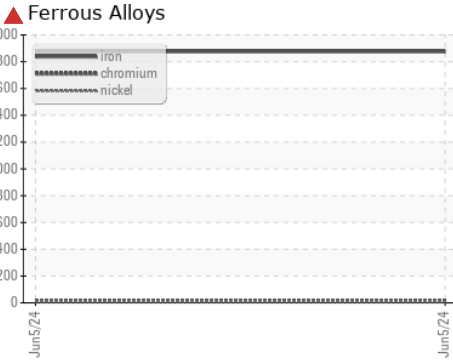
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>144</b>	---	---

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.** : WC0940692      **Received** : 25 Jun 2024  
**Lab Number** : **06220071**      **Tested** : 26 Jun 2024  
**Unique Number** : 11098268      **Diagnosed** : 27 Jun 2024 - Sean Felton  
**Test Package** : CONST

**MANHATTAN ROAD AND BRIDGE**  
 5601 S 122ND E AVE  
 TULSA, OK  
 US 74146  
 Contact: BEN CALDWELL  
 kevin.marson@wearcheck.com

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: (918)728-5749

F: