

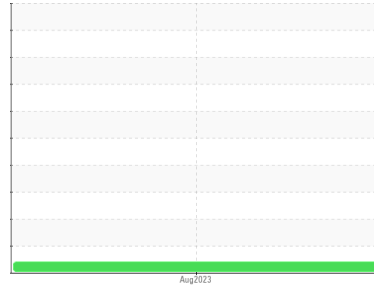


# PROBLEM SUMMARY

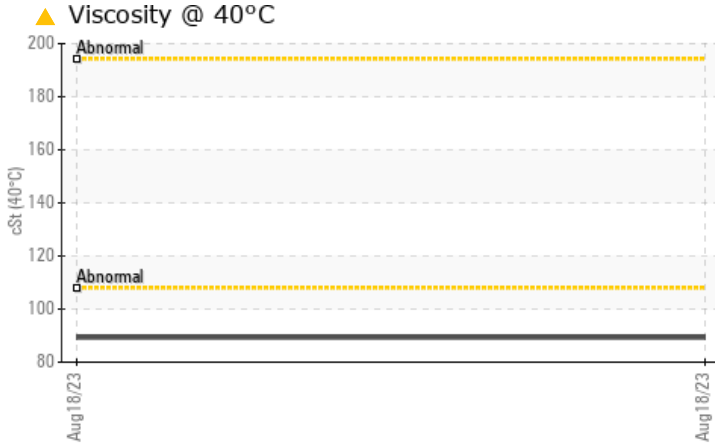
Sample Rating Trend

VISCOSITY

Area  
**[18971]**  
Machine Id  
**20-85**  
Component  
**Right Final Drive**  
Fluid  
**CONOCOPHILLIPS 80W90 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: ConocoPhillips 80/90w gear oil )

## PROBLEMATIC TEST RESULTS

Sample Status	ATTENTION	---	---		
Visc @ 40°C	cSt	ASTM D445	▲ 89.3	---	---

Customer Id: MANTUL  
Sample No.: WC0802417  
Lab Number: 05938004  
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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

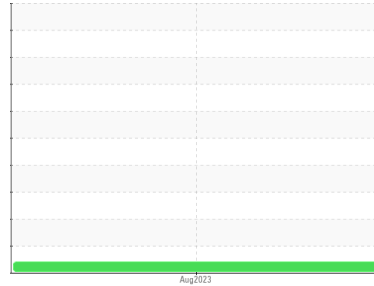


# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area  
**[18971]**  
 Machine Id  
**20-85**  
 Component  
**Right Final Drive**  
 Fluid  
**CONOCOPHILLIPS 80W90 (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: ConocoPhillips 80/90w gear oil )

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0802417</b>	---	---
Sample Date	Client Info	<b>18 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>8659</b>	---	---
Oil Age	hrs Client Info	<b>536</b>	---	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>500	<b>217</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>1</b>	---	---
Nickel ppm ASTM D5185m	>10	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>8</b>	---	---
Lead ppm ASTM D5185m	>25	<b>0</b>	---	---
Copper ppm ASTM D5185m	>50	<b>8</b>	---	---
Tin ppm ASTM D5185m	>10	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>25</b>	---	---
Barium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Molybdenum ppm ASTM D5185m		<b>5</b>	---	---
Manganese ppm ASTM D5185m		<b>9</b>	---	---
Magnesium ppm ASTM D5185m		<b>3</b>	---	---
Calcium ppm ASTM D5185m		<b>51</b>	---	---
Phosphorus ppm ASTM D5185m		<b>933</b>	---	---
Zinc ppm ASTM D5185m		<b>95</b>	---	---
Sulfur ppm ASTM D5185m		<b>14489</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>75	<b>5</b>	---	---
Sodium ppm ASTM D5185m		<b>2</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---

## VISUAL

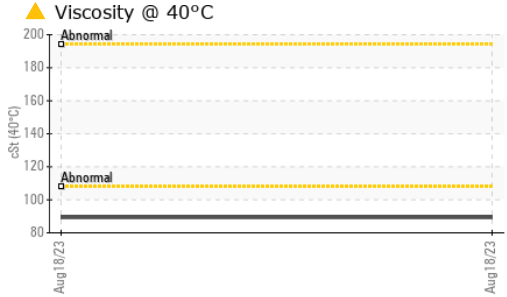
method	limit/base	current	history1	history2
White Metal scalar *Visual	NONE	<b>LIGHT</b>	---	---
Yellow Metal scalar *Visual	NONE	<b>NONE</b>	---	---
Precipitate scalar *Visual	NONE	<b>NONE</b>	---	---
Silt scalar *Visual	NONE	<b>NONE</b>	---	---
Debris scalar *Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt 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>▲ 89.3</b>	---	---

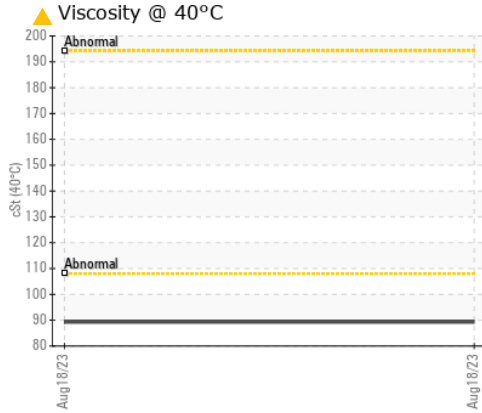
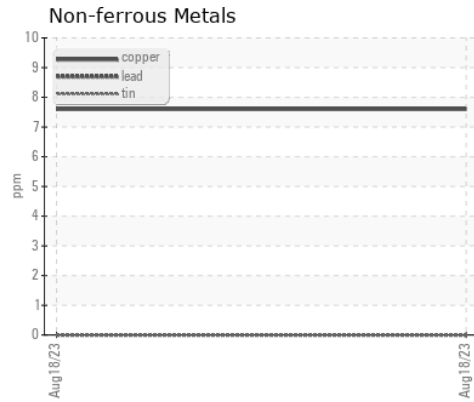
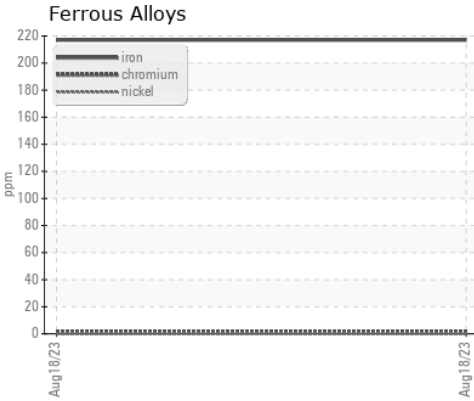


# OIL ANALYSIS REPORT



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.** : WC0802417      **Received** : 29 Aug 2023  
**Lab Number** : 05938004      **Diagnosed** : 31 Aug 2023  
**Unique Number** : 10628616      **Diagnostician** : Don Baldrige  
**Test Package** : CONST

**MANHATTAN ROAD AND BRIDGE**  
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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)