



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

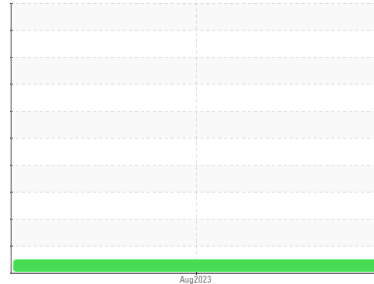


Area  
**TULSA [19097]**

Machine Id  
**40-238**

Component  
**Swing Drive**

Fluid  
**CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All 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>WC0818617</b>	---	---
Sample Date	Client Info	<b>28 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>3145</b>	---	---
Oil Age	hrs Client Info	<b>3145</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>400	<b>15</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>3</b>	---	---
Lead ppm ASTM D5185m	>50	<b>0</b>	---	---
Copper ppm ASTM D5185m	>200	<b>&lt;1</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	85	<b>8</b>	---	---
Barium ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum ppm ASTM D5185m		<b>4</b>	---	---
Manganese ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m	350	<b>26</b>	---	---
Calcium ppm ASTM D5185m	1800	<b>4210</b>	---	---
Phosphorus ppm ASTM D5185m	1000	<b>929</b>	---	---
Zinc ppm ASTM D5185m	1100	<b>1131</b>	---	---
Sulfur ppm ASTM D5185m	3500	<b>6743</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>15</b>	---	---
Sodium ppm ASTM D5185m		<b>0</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>1</b>	---	---

## VISUAL

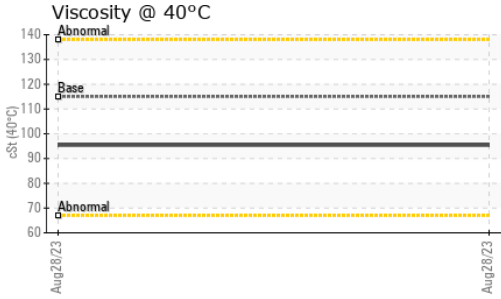
method	limit/base	current	history1	history2
White Metal scalar *Visual	NONE	<b>NONE</b>	---	---
Yellow Metal scalar *Visual	NONE	<b>NONE</b>	---	---
Precipitate scalar *Visual	NONE	<b>NONE</b>	---	---
Silt scalar *Visual	NONE	<b>NONE</b>	---	---
Debris scalar *Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt 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	115	<b>95.4</b>	---	---

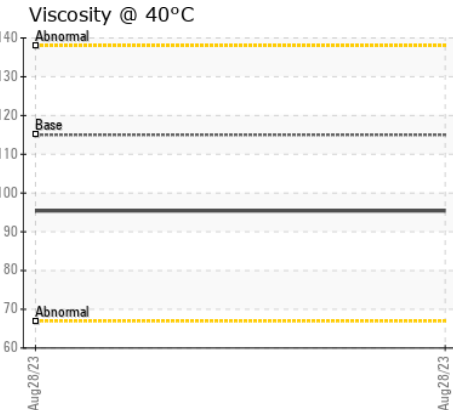
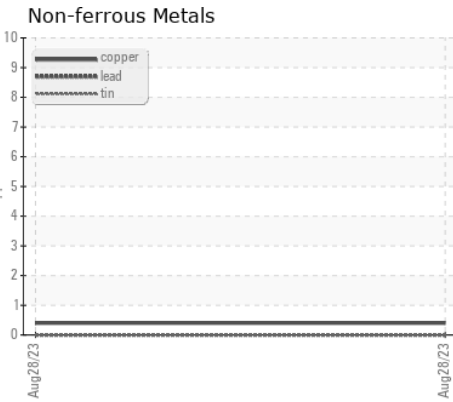
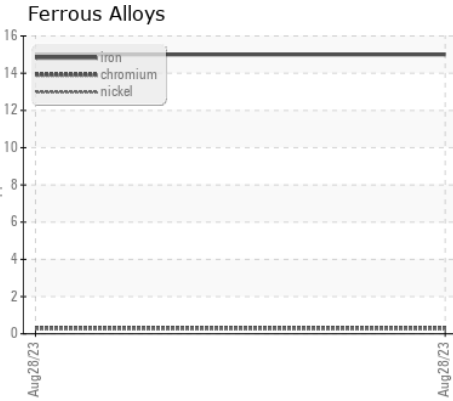


# OIL ANALYSIS REPORT



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.** : WC0818617      **Received** : 03 Oct 2023  
**Lab Number** : **05968471**      **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10675022      **Diagnostician** : Doug Bogart  
**Test Package** : CONST

**MANHATTAN ROAD AND BRIDGE**  
 5601 S 122ND E AVE  
 TULSA, OK  
 US 74146  
 Contact: JAMES STEELMON  
 james.steelmon@manhattanrb.com  
 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)