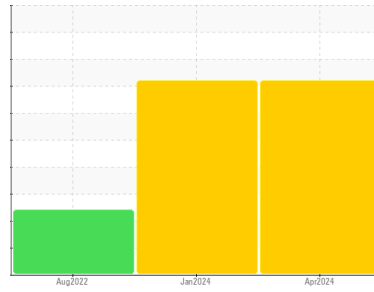




# PROBLEM SUMMARY

Area  
**[22174]**  
 Machine Id  
**40-98**  
 Component  
**Left Final Drive**  
 Fluid  
**CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)**

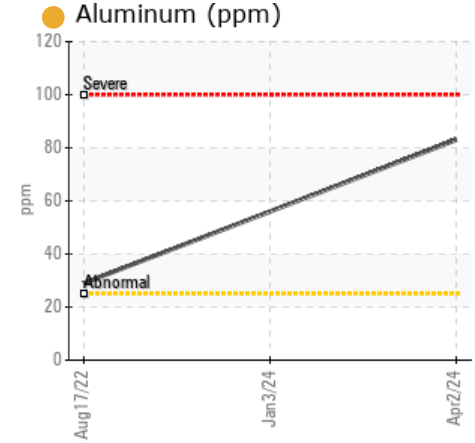
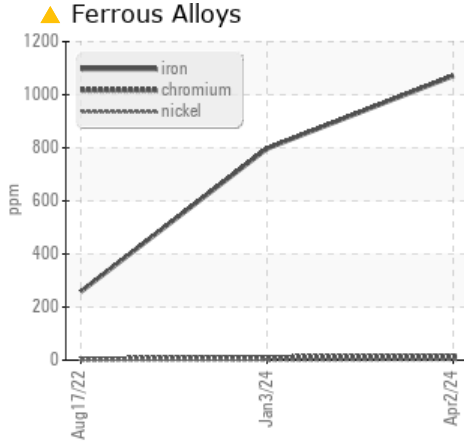
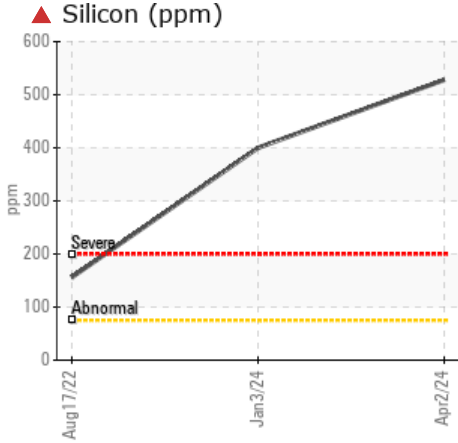
## Sample Rating Trend



**DIRT**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>500	▲ <b>1071</b>	▲ 797	258
Chromium	ppm	ASTM D5185m	>10	▲ <b>14</b>	▲ 11	4
Silicon	ppm	ASTM D5185m	>75	▲ <b>528</b>	▲ 400	▲ 156

Customer Id: MANTUL  
 Sample No.: WC0836144  
 Lab Number: 06148184  
 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
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

DIRT



**03 Jan 2024 Diag: Angela Borella**

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. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

[view report](#)



DIRT



**17 Aug 2022 Diag: Angela Borella**

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

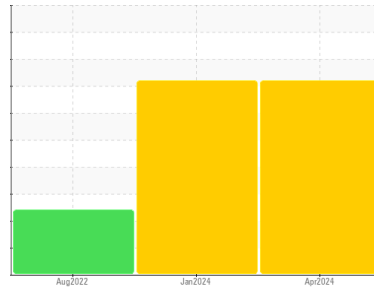
[view report](#)





# OIL ANALYSIS REPORT

## Sample Rating Trend



DIRT



Area  
[22174]

Machine Id  
40-98

Component  
Left Final Drive

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

### DIAGNOSIS

#### ▲ Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. 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		WC0836144	WC0836153	WC0709429
Sample Date	Client Info		02 Apr 2024	03 Jan 2024	17 Aug 2022
Machine Age	hrs	Client Info	5358	5084	4593
Oil Age	hrs	Client Info	274	1084	500
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			SEVERE	SEVERE	ABNORMAL

### CONTAMINATION

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

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 1071	▲ 797	258
Chromium	ppm	ASTM D5185m >10	▲ 14	▲ 11	4
Nickel	ppm	ASTM D5185m >10	2	<1	1
Titanium	ppm	ASTM D5185m	6	5	2
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	● 83	▲ 56	▲ 29
Lead	ppm	ASTM D5185m >25	<1	0	<1
Copper	ppm	ASTM D5185m >50	12	8	4
Tin	ppm	ASTM D5185m >10	0	<1	<1
Vanadium	ppm	ASTM D5185m	1	<1	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 85	133	104	135
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	17	13	13
Manganese	ppm	ASTM D5185m	9	7	2
Magnesium	ppm	ASTM D5185m 350	710	657	584
Calcium	ppm	ASTM D5185m 1800	1664	1419	1318
Phosphorus	ppm	ASTM D5185m 1000	1237	1136	945
Zinc	ppm	ASTM D5185m 1100	1327	1217	1120
Sulfur	ppm	ASTM D5185m 3500	4538	3861	3390

### CONTAMINANTS

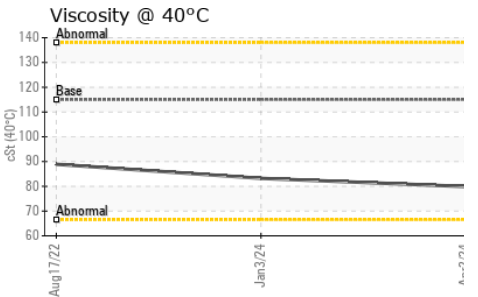
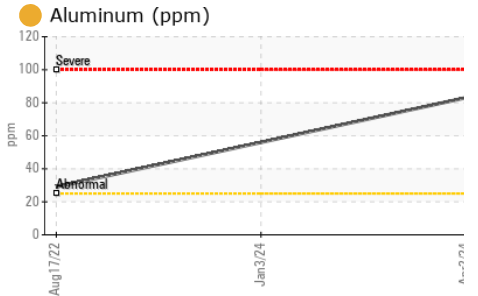
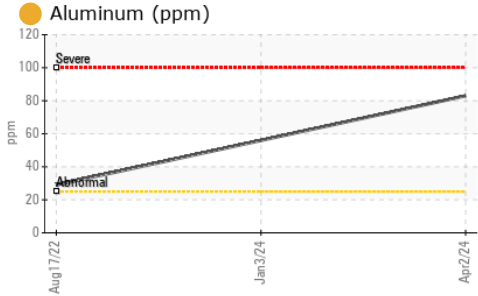
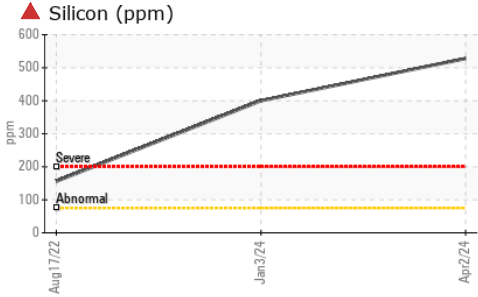
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 528	▲ 400	▲ 156
Sodium	ppm	ASTM D5185m	5	4	2
Potassium	ppm	ASTM D5185m >20	26	18	7

### VISUAL

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



# OIL ANALYSIS REPORT

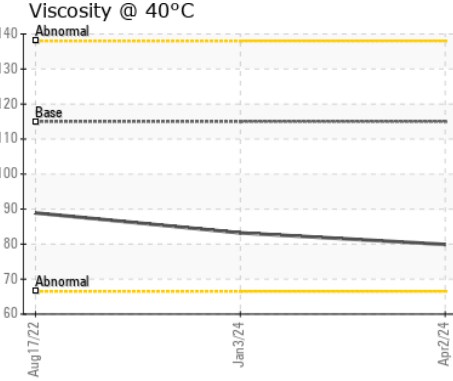
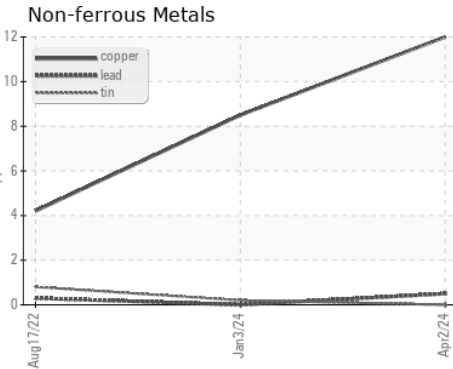
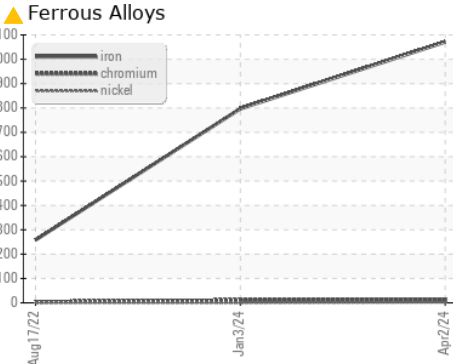


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	115	<b>79.9</b>	83.2	88.9

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

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)

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0836144

**Lab Number** : 06148184

**Unique Number** : 10978262

**Test Package** : CONST

**Received** : 12 Apr 2024

**Tested** : 15 Apr 2024

**Diagnosed** : 16 Apr 2024 - Sean Felton

**MANHATTAN ROAD AND BRIDGE**

5601 S 122ND E AVE

TULSA, OK

US 74146

Contact: BEN CALDWELL

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