

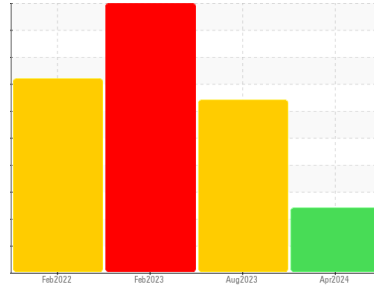


# OIL ANALYSIS REPORT



Area  
**[22887]**  
 Machine Id  
**30-77**  
 Component  
**Left Final Drive**  
 Fluid  
**CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)**

Sample Rating Trend



**WATER**



## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Appearance is milky. There is a light concentration of water present 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>WC0836141</b>	WC0802440	WC0754826
Sample Date	Client Info		<b>10 Apr 2024</b>	01 Aug 2023	20 Feb 2023
Machine Age	hrs	Client Info	<b>4653</b>	3625	3080
Oil Age	hrs	Client Info	<b>529</b>	545	1080
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>ABNORMAL</b>	SEVERE	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >750	<b>195</b>	425	▲ 1320
Chromium	ppm	ASTM D5185m >9	<b>3</b>	6	▲ 13
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	1	4
Titanium	ppm	ASTM D5185m	<b>1</b>	1	3
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >40	<b>5</b>	● 12	● 58
Lead	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 85	<b>155</b>	49	198
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>3</b>	2	7
Manganese	ppm	ASTM D5185m	<b>4</b>	7	16
Magnesium	ppm	ASTM D5185m 350	<b>39</b>	15	24
Calcium	ppm	ASTM D5185m 1800	<b>3278</b>	64	162
Phosphorus	ppm	ASTM D5185m 1000	<b>1188</b>	343	960
Zinc	ppm	ASTM D5185m 1100	<b>1327</b>	30	93
Sulfur	ppm	ASTM D5185m 3500	<b>5438</b>	19997	19332

## CONTAMINANTS

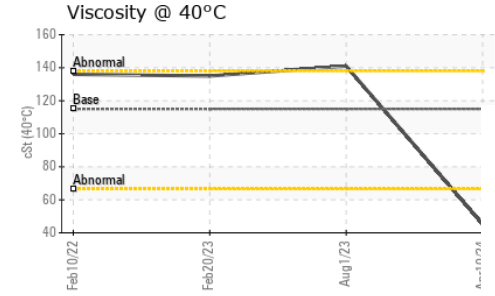
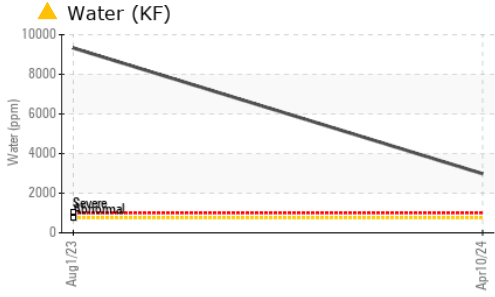
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>46</b>	▲ 76	▲ 323
Sodium	ppm	ASTM D5185m >51	<b>0</b>	4	9
Potassium	ppm	ASTM D5185m >20	<b>3</b>	6	21
Water	%	ASTM D6304 >0.075	▲ <b>0.298</b>	▲ 0.933	---
ppm Water	ppm	ASTM D6304 >750	▲ <b>2980</b>	▲ 9330	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	● <b>MILKY</b>	● MILKY	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.075	▲ <b>0.2%</b>	▲ 0.2%	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



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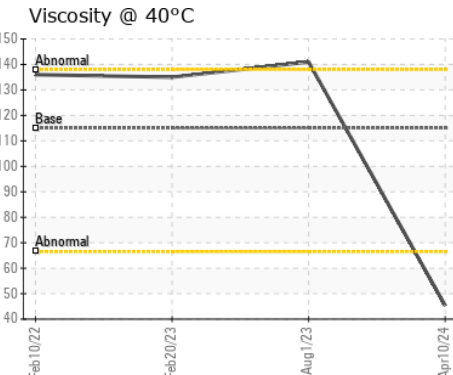
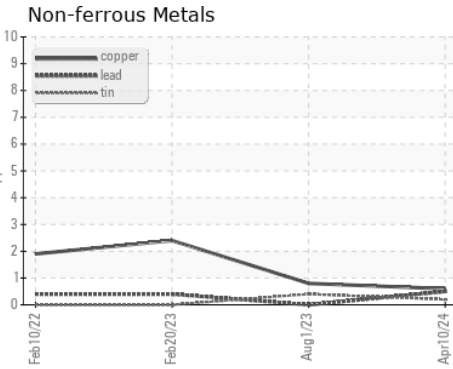
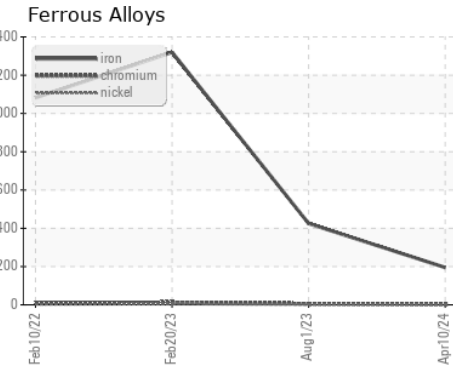
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 115	<b>45.3</b>	141	135

### 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.** : WC0836141      **Received** : 12 Apr 2024  
**Lab Number** : 06148187      **Tested** : 16 Apr 2024  
**Unique Number** : 10978265      **Diagnosed** : 16 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF )

**MANHATTAN ROAD AND BRIDGE**  
 5601 S 122ND E AVE  
 TULSA, OK  
 US 74146  
 Contact: BEN CALDWELL  
 kevin.marson@wearcheck.com  
 T: (918)728-5749  
 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)