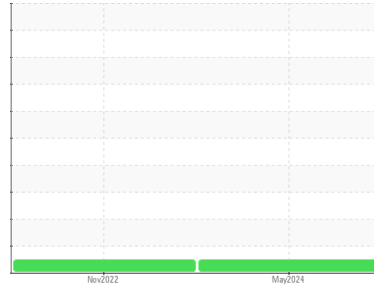




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**[23363]**

Machine Id

**55-47**

Component

**Diesel Engine**

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0923430</b>	WC0619997	---
Sample Date	Client Info		<b>15 May 2024</b>	10 Nov 2022	---
Machine Age	hrs	Client Info	<b>3291</b>	3034	---
Oil Age	hrs	Client Info	<b>257</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>38</b>	79	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	3	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	11	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m >330	<b>2</b>	7	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 85	<b>&lt;1</b>	4	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>3</b>	2	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 350	<b>41</b>	25	---
Calcium	ppm	ASTM D5185m 1800	<b>2419</b>	2362	---
Phosphorus	ppm	ASTM D5185m 1000	<b>915</b>	907	---
Zinc	ppm	ASTM D5185m 1100	<b>1188</b>	1191	---
Sulfur	ppm	ASTM D5185m 3500	<b>4053</b>	4274	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>10</b>	13	---
Sodium	ppm	ASTM D5185m	<b>2</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	---

### INFRA-RED

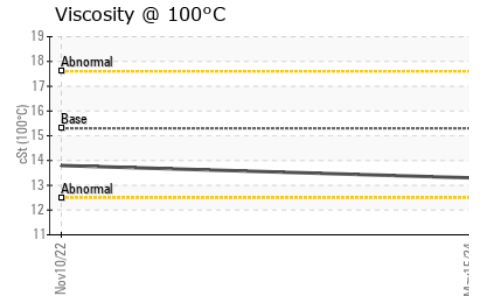
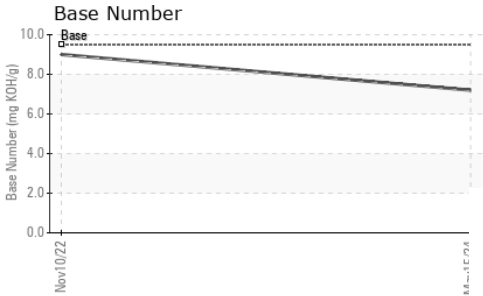
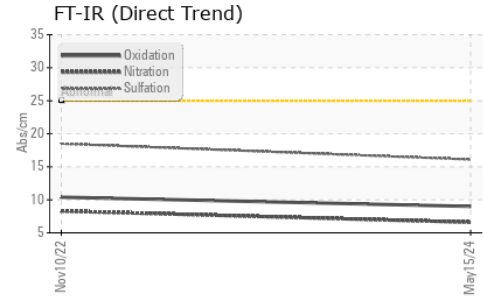
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.6</b>	8.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>16.1</b>	18.5	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>9.0</b>	10.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.5	<b>7.2</b>	9.0	---



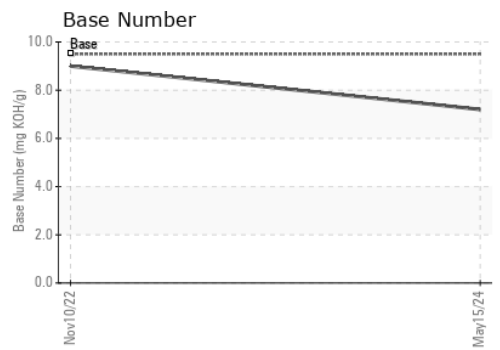
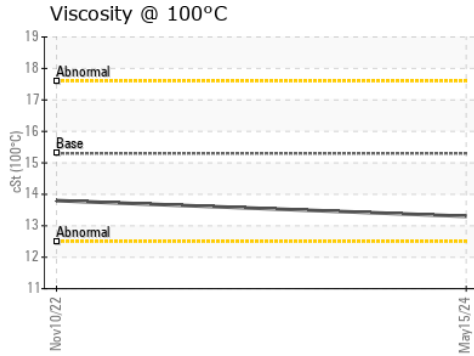
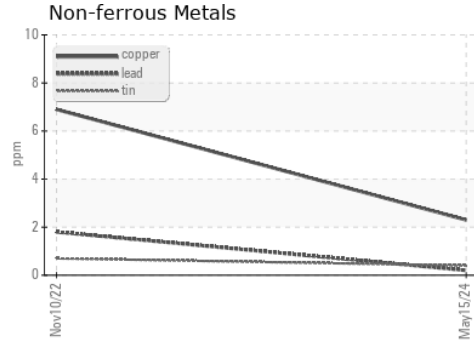
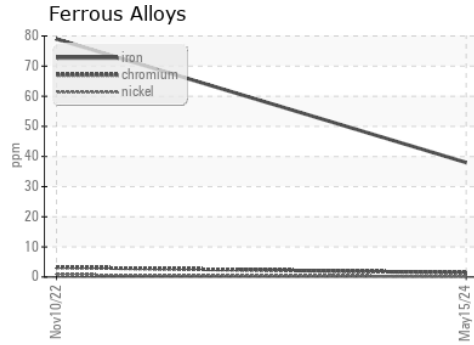
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.3	13.3	13.8

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0923430      **Received** : 11 Jun 2024  
**Lab Number** : **06207293**      **Tested** : 13 Jun 2024  
**Unique Number** : 11074754      **Diagnosed** : 13 Jun 2024 - Angela Borella  
**Test Package** : CONST ( Additional Tests: TBN )

**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)