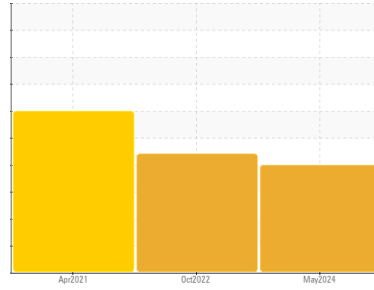




# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**80-217**  
 Component  
**Rear Left Final Drive**  
 Fluid  
**CONOCO PHILLIPS POWERTRAN (--- 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

Bearing and/or gear wear is indicated.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### 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>WC0766475</b>	WC0619468	WC0548870
Sample Date	Client Info		<b>02 May 2024</b>	18 Oct 2022	02 Apr 2021
Machine Age	hrs	Client Info	<b>6923</b>	5863	4870
Oil Age	hrs	Client Info	<b>6923</b>	730	1000
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	SEVERE

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>▲ 604</b>	▲ 914	81
Chromium	ppm	ASTM D5185m >10	<b>8</b>	▲ 13	2
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>1</b>	2	<1
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>● 7</b>	● 19	1
Lead	ppm	ASTM D5185m >25	<b>2</b>	0	1
Copper	ppm	ASTM D5185m >50	<b>▲ 65</b>	33	▲ 715
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>85</b>	2	114
Barium	ppm	ASTM D5185m	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>6</b>	8	2
Magnesium	ppm	ASTM D5185m	<b>27</b>	7	12
Calcium	ppm	ASTM D5185m	<b>2624</b>	146	3363
Phosphorus	ppm	ASTM D5185m	<b>977</b>	304	1125
Zinc	ppm	ASTM D5185m	<b>1079</b>	78	1540
Sulfur	ppm	ASTM D5185m	<b>8311</b>	18516	8263

## CONTAMINANTS

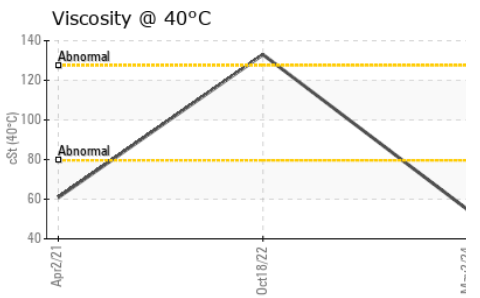
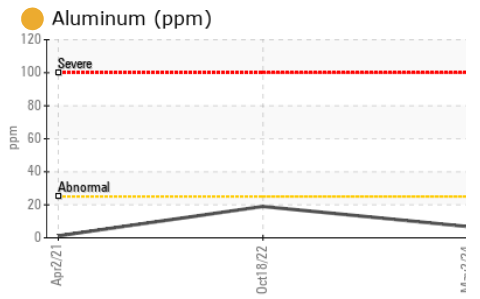
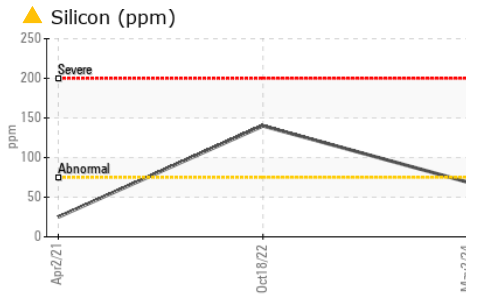
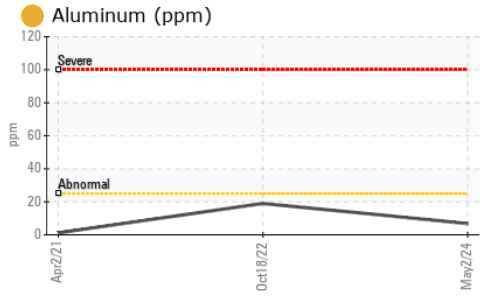
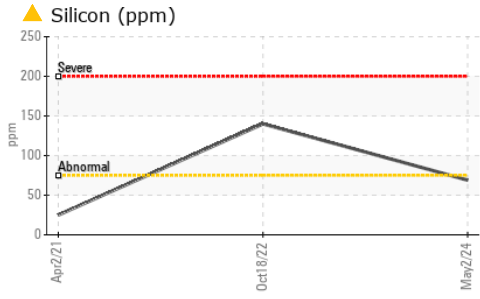
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>▲ 69</b>	▲ 140	25
Sodium	ppm	ASTM D5185m	<b>4</b>	3	23
Potassium	ppm	ASTM D5185m >20	<b>3</b>	5	1

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>MODER</b>	MODER	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>MODER</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>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT

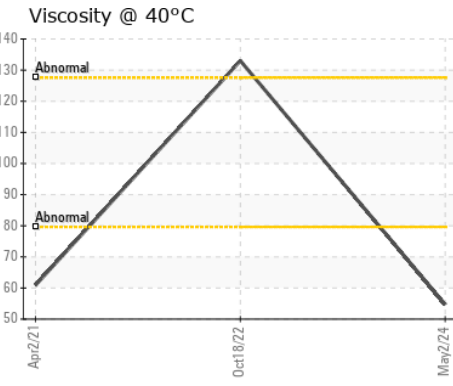
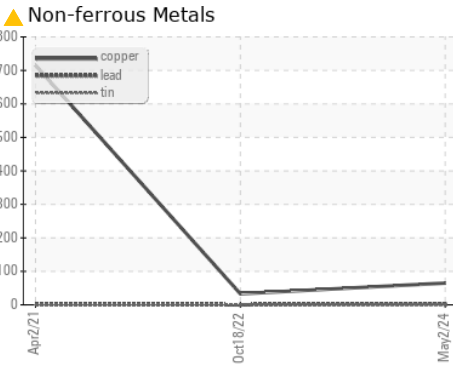
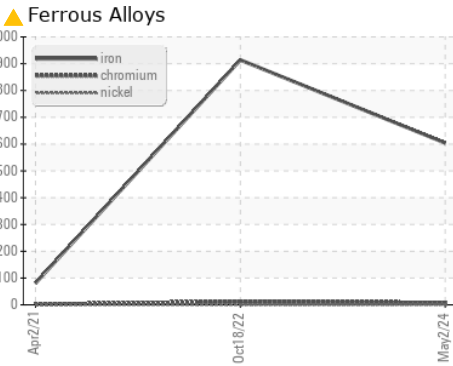


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>54.7</b>	133	60.9

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

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0766475  
**Lab Number** : **06181822**  
**Unique Number** : 11033148  
**Test Package** : CONST

**Received** : 16 May 2024  
**Tested** : 17 May 2024  
**Diagnosed** : 20 May 2024 - Sean Felton

**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)