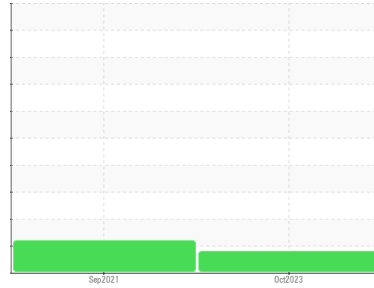




PROBLEM SUMMARY

Sample Rating Trend



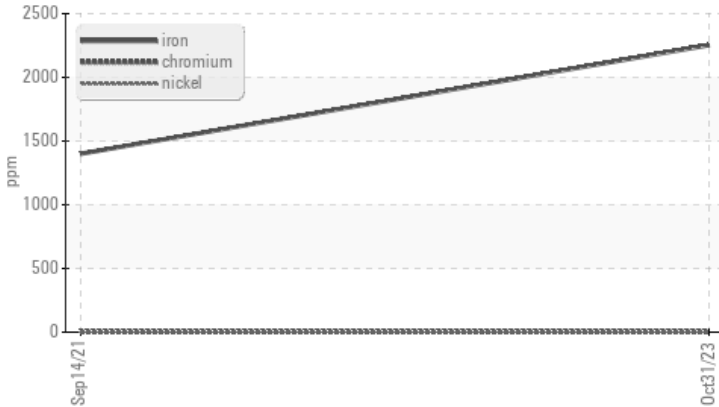
WEAR



Area
[20017]
 Machine Id
50-56
 Component
Front Differential
 Fluid
CONOCO PHILLIPS POWER TRAN (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips power Tran)

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>500
	▲ 2253	▲ 1400	---

Customer Id: MANTUL
 Sample No.: WC0836106
 Lab Number: 06009219
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.

HISTORICAL DIAGNOSIS

14 Sep 2021 Diag: Angela Borella

WEAR



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. Iron ppm levels are abnormal. Gear wear is indicated. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 10W range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report





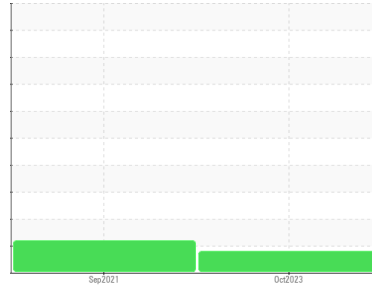
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
[20017]
 Machine Id
50-56
 Component
Front Differential
 Fluid
CONOCO PHILLIPS POWER TRAN (--- GAL)



DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips power Tran)

▲ Wear

The iron level is severe. Gear wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0836106	WC0601503	---
Sample Date	Client Info		31 Oct 2023	14 Sep 2021	---
Machine Age	hrs	Client Info	12325	11650	---
Oil Age	hrs	Client Info	1675	0	---
Oil Changed	Client Info		Changed	Not Changd	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 2253	▲ 1400	---
Chromium	ppm	ASTM D5185m >10	2	1	---
Nickel	ppm	ASTM D5185m >10	<1	1	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	<1	2	---
Lead	ppm	ASTM D5185m >25	<1	3	---
Copper	ppm	ASTM D5185m >100	10	6	---
Tin	ppm	ASTM D5185m >10	0	0	---
Antimony	ppm	ASTM D5185m >5	---	0	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	71	60	---
Barium	ppm	ASTM D5185m	6	0	---
Molybdenum	ppm	ASTM D5185m	2	0	---
Manganese	ppm	ASTM D5185m	16	10	---
Magnesium	ppm	ASTM D5185m	16	15	---
Calcium	ppm	ASTM D5185m	785	886	---
Phosphorus	ppm	ASTM D5185m	466	470	---
Zinc	ppm	ASTM D5185m	140	145	---
Sulfur	ppm	ASTM D5185m	1735	1492	---

CONTAMINANTS

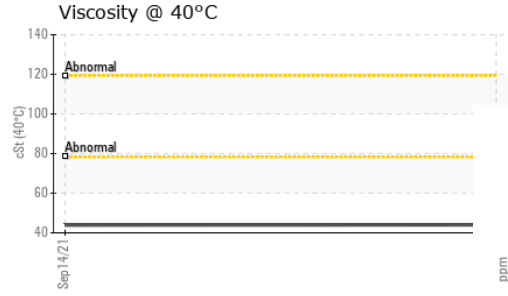
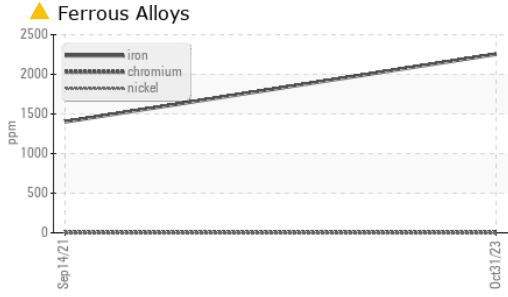
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	18	14	---
Sodium	ppm	ASTM D5185m	0	1	---
Potassium	ppm	ASTM D5185m >20	1	6	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >.2	NEG	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---



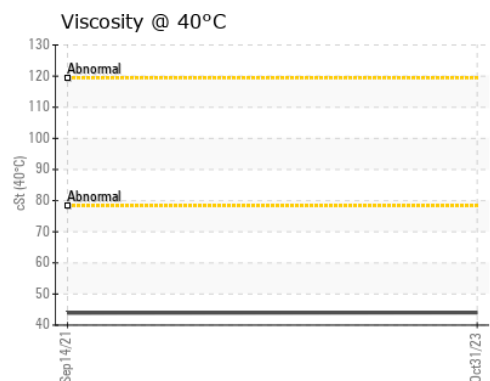
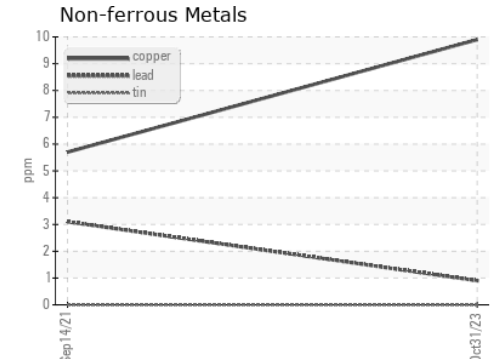
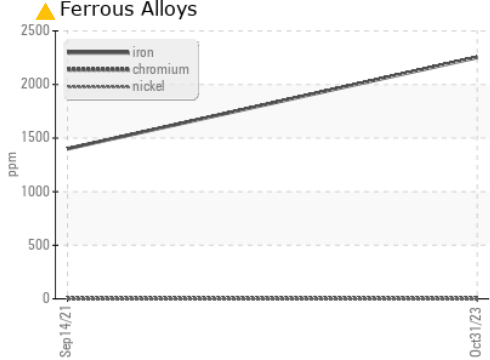
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.0	▲ 43.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0836106 **Received** : 15 Nov 2023
Lab Number : 06009219 **Diagnosed** : 17 Nov 2023
Unique Number : 10742981 **Diagnostician** : Angela Borella
Test Package : CONST

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)