



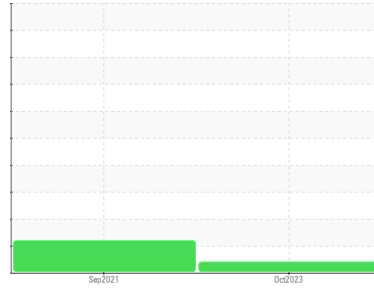
PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

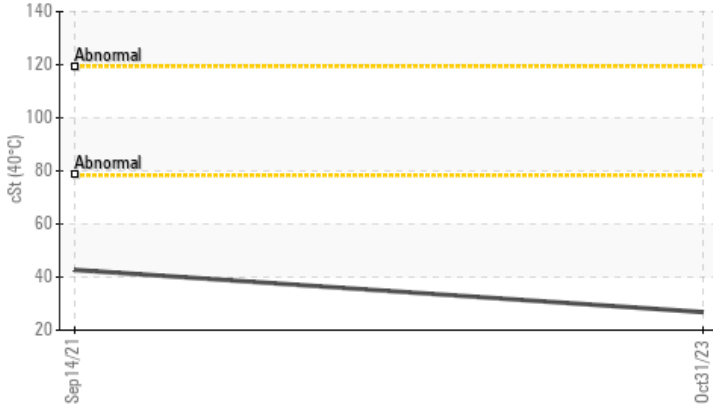


Area
[20017]
 Machine Id
50-56
 Component
Rear Differential
 Fluid
CONOCO PHILLIPS POWER TRAN (--- GAL)



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips power Tran)

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	---
Visc @ 40°C	cSt	ASTM D445	▲ 26.8	▲ 42.7	---

Customer Id: MANTUL
 Sample No.: WC0836134
 Lab Number: 06009220
 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

There are no recommended actions for this sample.

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





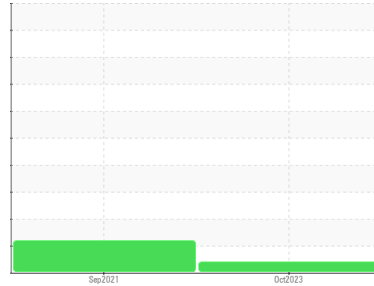
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



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



DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips power Tran)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0836134	WC0601505	---
Sample Date	Client Info		31 Oct 2023	14 Sep 2021	---
Machine Age	hrs	Client Info	12325	11650	---
Oil Age	hrs	Client Info	675	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	36	▲ 988	---
Chromium	ppm	ASTM D5185m >10	1	1	---
Nickel	ppm	ASTM D5185m >10	0	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	5	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	79	56	---
Barium	ppm	ASTM D5185m	7	0	---
Molybdenum	ppm	ASTM D5185m	4	0	---
Manganese	ppm	ASTM D5185m	0	8	---
Magnesium	ppm	ASTM D5185m	52	14	---
Calcium	ppm	ASTM D5185m	2127	894	---
Phosphorus	ppm	ASTM D5185m	757	524	---
Zinc	ppm	ASTM D5185m	897	172	---
Sulfur	ppm	ASTM D5185m	2498	1451	---

CONTAMINANTS

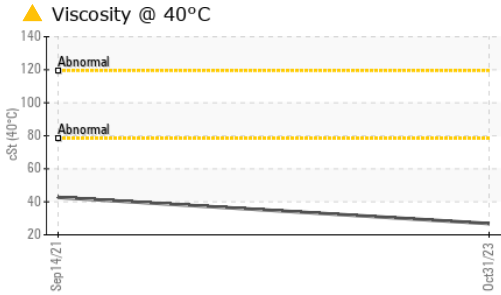
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	15	12	---
Sodium	ppm	ASTM D5185m	0	2	---
Potassium	ppm	ASTM D5185m >20	2	3	---

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



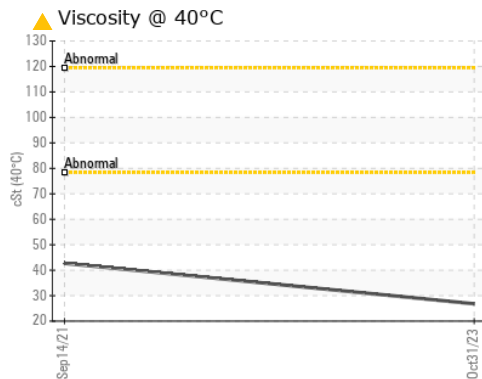
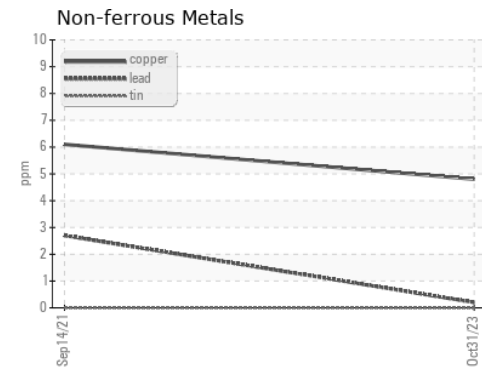
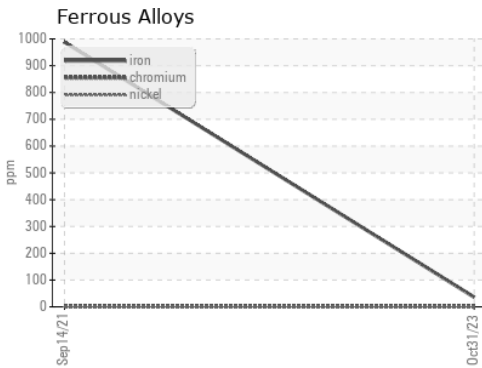
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	▲ 26.8	▲ 42.7	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
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. : WC0836134 **Received** : 15 Nov 2023
Lab Number : 06009220 **Diagnosed** : 17 Nov 2023
Unique Number : 10742982 **Diagnostician** : Angela Borella
Test Package : CONST

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 US 74146
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 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)