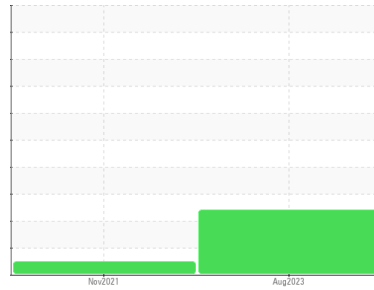




PROBLEM SUMMARY

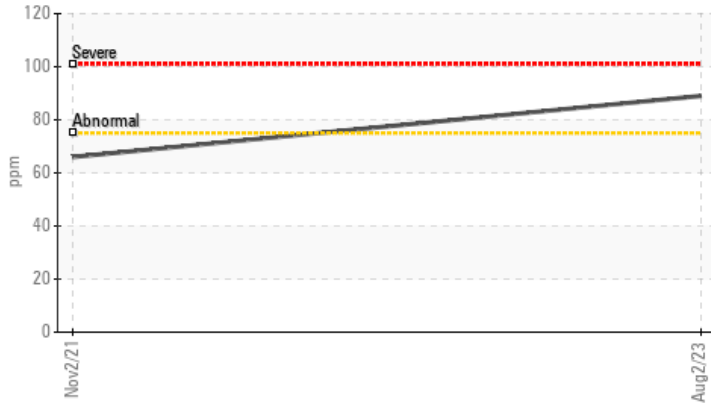
Sample Rating Trend



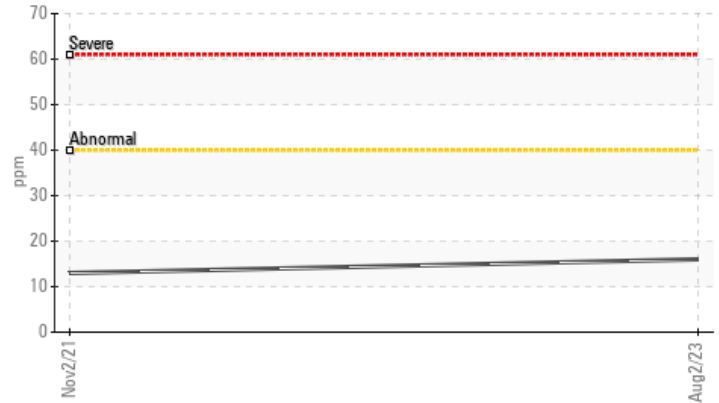
Area
[18464]
 Machine Id
40-149
 Component
Right Final Drive
 Fluid
ConocoPhillips 80/90 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



▲ Aluminum (ppm)



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	---
Aluminum	ppm	ASTM D5185m	>40	▲ 16	13	---
Silicon	ppm	ASTM D5185m	>75	▲ 89	66	---

Customer Id: MANTUL
 Sample No.: WC0802441
 Lab Number: 05928986
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

02 Nov 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

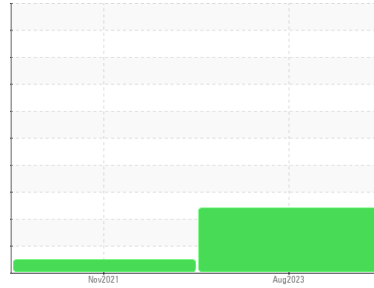
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Area
[18464]
 Machine Id
40-149
 Component
Right Final Drive
 Fluid
ConocoPhillips 80/90 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

▲ Wear

All component wear rates are normal.

▲ 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		WC0802441	WC0601340	---
Sample Date	Client Info		02 Aug 2023	02 Nov 2021	---
Machine Age	hrs	Client Info	3468	3015	---
Oil Age	hrs	Client Info	453	1000	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >750	422	272	---
Chromium	ppm	ASTM D5185m >9	6	4	---
Nickel	ppm	ASTM D5185m >10	1	2	---
Titanium	ppm	ASTM D5185m	<1	1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >40	▲ 16	13	---
Lead	ppm	ASTM D5185m >15	0	<1	---
Copper	ppm	ASTM D5185m >40	<1	<1	---
Tin	ppm	ASTM D5185m >10	0	0	---
Antimony	ppm	ASTM D5185m >5	---	0	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	11	31	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	<1	<1	---
Manganese	ppm	ASTM D5185m	6	4	---
Magnesium	ppm	ASTM D5185m	7	8	---
Calcium	ppm	ASTM D5185m	35	32	---
Phosphorus	ppm	ASTM D5185m	455	425	---
Zinc	ppm	ASTM D5185m	21	18	---
Sulfur	ppm	ASTM D5185m	21286	17269	---

CONTAMINANTS

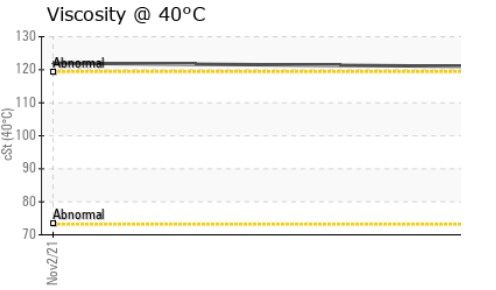
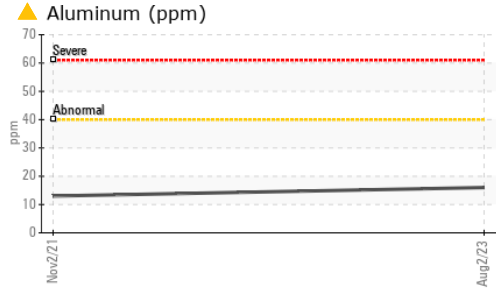
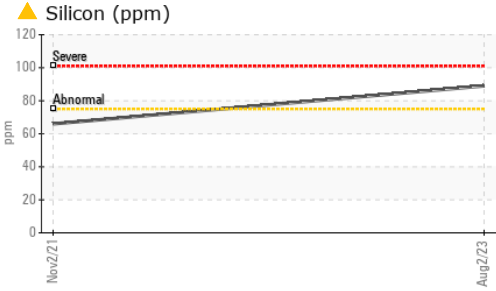
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 89	66	---
Sodium	ppm	ASTM D5185m >51	1	<1	---
Potassium	ppm	ASTM D5185m >20	7	4	---

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	LIGHT	NONE	---
Debris	scalar	*Visual NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.075	NEG	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---



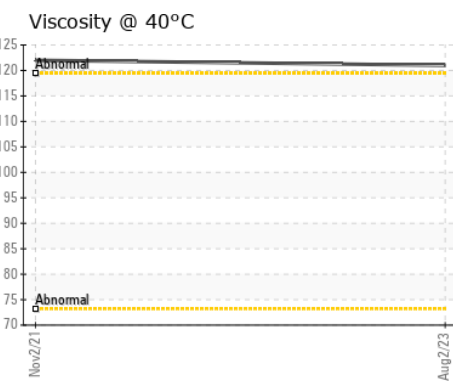
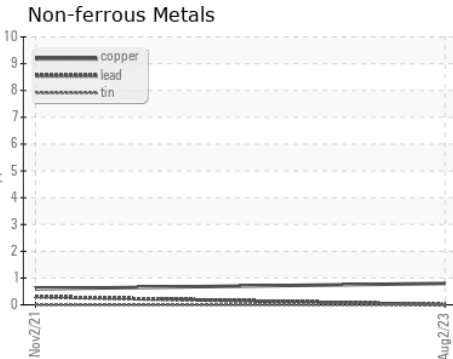
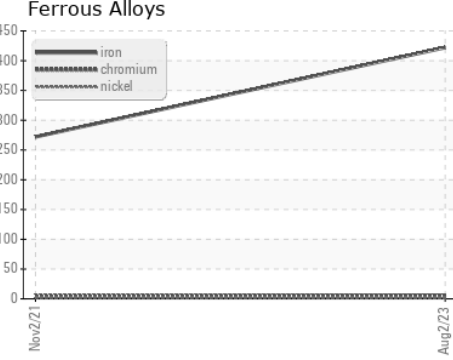
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	121	122	---

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. : WC0802441 **Received** : 18 Aug 2023
Lab Number : 05928986 **Diagnosed** : 22 Aug 2023
Unique Number : 10608933 **Diagnostician** : Don Baldrige
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)