

PROBLEM SUMMARY

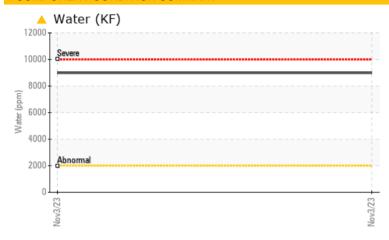
Area [19757] 20-80 Component

Swing Drive

CONOCOPHILLIPS 80W90 (--- GAL)

Sample Rating Trend **WATER**

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: ConocoPhillips gear oil 80w/90)

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	NORMAL	NORMAL			
Water	%	ASTM D6304	>0.2	△ 0.899					
ppm Water	mag	ASTM D6304	>2000	A 8990					

Customer Id: MANTUL Sample No.: WC0836127 Lab Number: 06009214 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
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
Resample			?	We recommend an early resample to monitor this condition.
Check Water Access			?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

25 May 2023 Diag: Don Baldridge





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.



26 Aug 2022 Diag: Don Baldridge

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.





OIL ANALYSIS REPORT

Area [19757] 20-80

Component **Swing Drive**

CONOCOPHILLIPS 80W90 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: ConocoPhillips gear oil 80w/90)

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil.

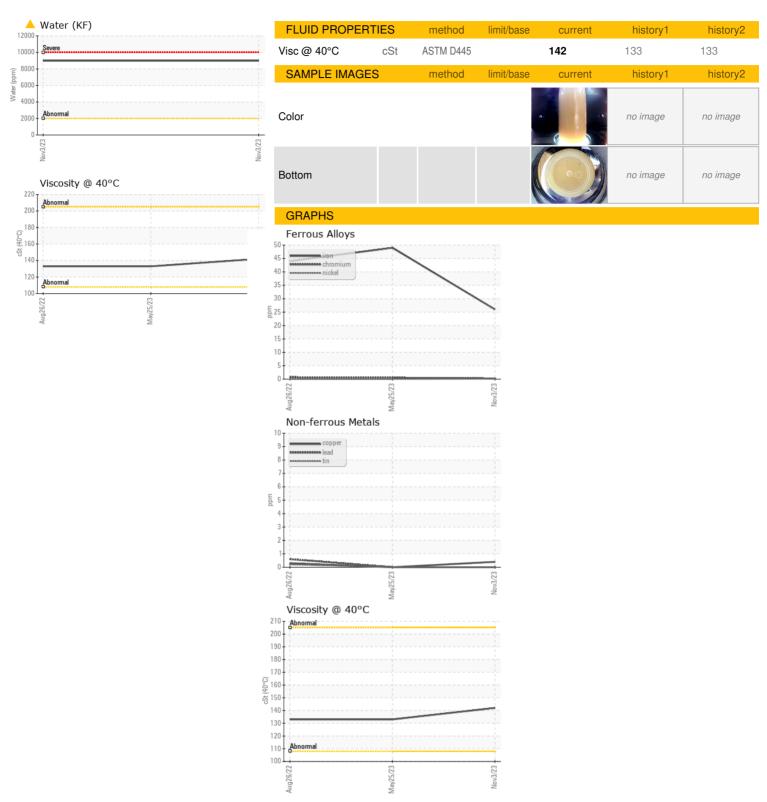
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

		Auş	2022	May2023 Nov20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836127	WC0802424	WC0619369
Sample Date		Client Info		03 Nov 2023	25 May 2023	26 Aug 2022
Machine Age	hrs	Client Info		6510	6026	5538
Oil Age	hrs	Client Info		484	488	5241
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	26	49	44
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	0
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	47	40
Barium	ppm	ASTM D5185m		7	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	2	1
Magnesium	ppm	ASTM D5185m		4	4	15
Calcium	ppm	ASTM D5185m		8	10	6
Phosphorus	ppm	ASTM D5185m		281	452	406
Zinc	ppm	ASTM D5185m		1	0	2
Sulfur	ppm	ASTM D5185m		19438	21976	16884
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	3
Sodium	ppm	ASTM D5185m		0	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	1	4
Water	%	ASTM D6304	>0.2	△ 0.899		
ppm Water	ppm	ASTM D6304	>2000	<u> </u>		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: 06009214 Unique Number : 10742976

: WC0836127

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Nov 2023 Diagnosed : 17 Nov 2023 Diagnostician : Angela Borella

Test Package : CONST (Additional Tests: KF) 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)

MANHATTAN ROAD AND BRIDGE

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