

#### 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. Resample at the next service interval to monitor. (Customer Sample Comment: ConocoPhillips gear oil 80w/90)

# PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION			
Iron	ppm	ASTM D5185m	>750	<u> </u>	10			
Aluminum	ppm	ASTM D5185m	>40	<u> </u>	<1			
Silicon	ppm	ASTM D5185m	>75	<u> </u>	0			
Visc @ 40°C	cSt	ASTM D445		<u> </u>	<b>2</b> 94			

Customer Id: MANTUL Sample No.: WC0793334 Lab Number: 05928983 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +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

### 10 Feb 2023 Diag: Don Baldridge

#### VISCOSITY



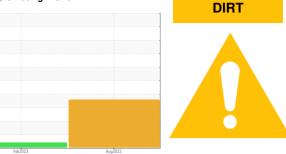
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



Area [18747] 40-209 Component Left Final Drive Fluid

# ConocoPhillips 80w/90 (--- GAL)

#### DIAGNOSIS

#### A 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. Resample at the next service interval to monitor. ( Customer Sample Comment: ConocoPhillips gear oil 80w/90)

#### A Wear

Gear wear is indicated. All other component wear rates are normal.

#### Contamination

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

### Fluid Condition

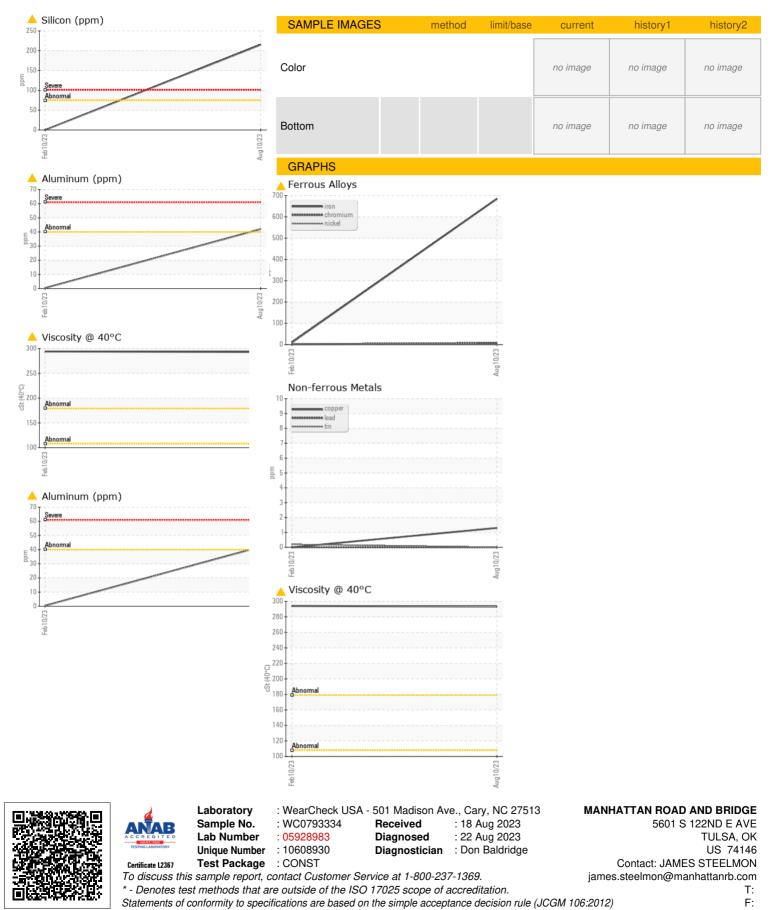
The oil viscosity is higher than normal. Confirm oil type.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0793334	WC0754768	
Sample Date		Client Info		10 Aug 2023	10 Feb 2023	
Machine Age	hrs	Client Info		3154	2618	
Oil Age	hrs	Client Info		536	618	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>750	<u> </u>	10	
Chromium	ppm	ASTM D5185m	>9	7	1	
Nickel	ppm	ASTM D5185m	>10	1	<1	
Titanium	ppm	ASTM D5185m		3	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>40	<u> </u>	<1	
Lead	ppm	ASTM D5185m	>15	0	0	
Copper	ppm	ASTM D5185m	>40	1	0	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		<1	1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		255	64	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		8	<1	
Magnesium	ppm	ASTM D5185m		8	1	
Calcium	ppm	ASTM D5185m		37	9	
Phosphorus	ppm	ASTM D5185m		914	274	
Zinc	ppm	ASTM D5185m		10	3	
Sulfur	ppm	ASTM D5185m		24430	6381	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<u> </u>	0	
Sodium	ppm	ASTM D5185m	>51	2	32	
Potassium	ppm	ASTM D5185m	>20	10	7	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
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	>0.075	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C 1:56:21) Rev: 1	cSt	ASTM D445		▲ 293 Sub	A 294 294 294 294 294 294 294 294 294 294	ES STEELMON

Report Id: MANTUL [WUSCAR] 05928983 (Generated: 08/22/2023 11:56:21) Rev: 1



# **OIL ANALYSIS REPORT**



Submitted By: JAMES STEELMON

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