Area

# **PROBLEM SUMMARY**

Sample Rating Trend



 Imachine Id

 60-08L

 Component

 Right Final Drive

 Fluid

 GEAR OIL SAE 80W90 (--- GAL)

### COMPONENT CONDITION SUMMARY







#### RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: ConocoPhillips sae 80w/90)

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Silicon	ppm	ASTM D5185m	>75	<b>4</b> 367	<b>3</b> 90	<b>4</b> 363		
Water	%	ASTM D6304	>0.2	<b>1</b> .49	<b>1</b> .28			
ppm Water	ppm	ASTM D6304	>2000	<b>14900</b>	<b>1</b> 2800			
Emulsified Water	scalar	*Visual	>0.2	<b>d</b> 0.2%	▲ 0.2%	NEG		

Customer Id: MANTUL Sample No.: WC0836209 Lab Number: 06149699 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 <u>customerservice@wearcheck.com</u>

RECOMMENDED A	BECOMMENDED ACTIONS						
Action Resample	Status	Date	Done By ?	<b>Description</b> We recommend an e			
Check Dirt Access			?	We advise that you o			
Check Water Access			?	We advise that you o			

We recommend an early resample to monitor this condition.

We advise that you check all areas where dirt can enter the system.

We advise that you check for the source of water entry.

### HISTORICAL DIAGNOSIS



#### 05 Jan 2024 Diag: Jonathan Hester

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. 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.All component wear rates are normal. There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



## 07 Sep 2021 Diag: Jonathan Hester



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.





# **OIL ANALYSIS REPORT**



60-08L Component Right Final Drive Fluid GEAR OIL SAE 80W90 (--- GAL)

#### DIAGNOSIS

[22662]

Area

#### Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: ConocoPhillips sae 80w/90)

#### 🛑 Wear

All component wear rates are normal.

#### Contamination

There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

#### Fluid Condition

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

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836209	WC0836224	WC0549020
Sample Date		Client Info		03 Apr 2024	05 Jan 2024	07 Sep 2021
Machine Age	hrs	Client Info		5981	5860	5106
Oil Age	hrs	Client Info		1000	652	1020
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	293	479	▲ 536
Chromium	ppm	ASTM D5185m	>10	4	5	7
Nickel	ppm	ASTM D5185m	>10	2	2	3
Titanium	ppm	ASTM D5185m		5	5	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	89	85	66
Lead	ppm	ASTM D5185m	>25	2	0	<1
Copper	ppm	ASTM D5185m	>50	33	18	58
Tin	ppm	ASTM D5185m	>10	3	3	4
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	historv1	historv2
Daran		ACTM DE105m	400	11	10	15
Borium	ppm	AGTM D5105m	200	2	0	15
Molybdonum	ppm	ASTM D5105III	10	-1	0	2
Manganese	ppm	ASTM D5185m	12	<1 A	5	6
Manganese	nom	ASTM D5185m	12	20	17	23
Calcium	nnm	ASTM D5185m	150	58	80	82
Phosphorus	nnm	ASTM D5185m	1650	257	278	376
Zinc	nnm	ASTM D5185m	125	17	17	34
Sulfur	nom	ASTM D5185m	22500	18446	17750	16768
	ppm		Lizzit/haaaa	10440	historial	history O
CONTAMINANTS		method	iimit/base	current	nistory i	nistory∠
Silicon	ppm	ASTM D5185m	>75	<b>4</b> 367	<b>A</b> 390	▲ 363
Sodium	ppm	ASTM D5185m	>170	8	5	8
Potassium	ppm	ASTM D5185m	>20	27	25	19
Water	%	ASTM D6304	>0.2	<b>1.49</b>	<b>1</b> .28	
ppm Water	ppm	ASTM D6304	>2000	<b>14900</b>	<b>12800</b>	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	- HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>0.2%</b>	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

Report Id: MANTUL [WUSCAR] 06149699 (Generated: 04/18/2024 12:20:04) Hev: 1

Submitted By: JAMES STEELMON



# **OIL ANALYSIS REPORT**



Test Package : CONST (Additional Tests: KF)

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

5601 S 122ND E AVE TULSA, OK US 74146 Contact: BEN CALDWELL kevin.marson@wearcheck.com T: (918)728-5749 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

Report Id: MANTUL [WUSCAR] 06149699 (Generated: 04/18/2024 12:20:04) Rev: 1

Certificate 12367

Submitted By: JAMES STEELMON

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