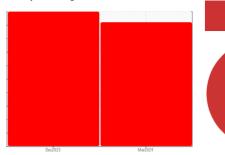


# **PROBLEM SUMMARY**

Sample Rating Trend



**DIRT** 

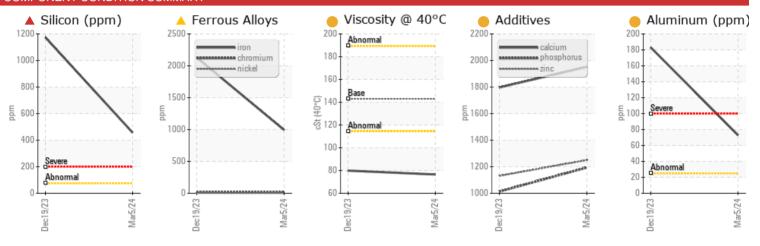
Machine Id

30-67

**Right Final Drive** 

GEAR OIL SAE 80W90 (--- GAL)

## COMPONENT CONDITION SUMMARY



### **RECOMMENDATION**

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.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE				
Iron	ppm	ASTM D5185m	>500	<b>4</b> 994	<b>1</b> 2131				
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u>^</u> 21				
Silicon	ppm	ASTM D5185m	>75	<b>457</b>	<b>1</b> 174				

Customer Id: MANTUL Sample No.: WC0936964 Lab Number: 06174347 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			
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 Dirt Access			?	We advise that you check all areas where dirt can enter the system.			

### HISTORICAL DIAGNOSIS

## 19 Dec 2023 Diag: Jonathan Hester

WEAR



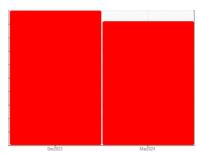
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.





# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id
30-67
Component
Pight Final Drive

**Right Final Drive** 

GEAR OIL SAE 80W90 (--- GAL)

### DIAGNOSIS

#### Recommendation

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.

### Wear

Gear wear is indicated.

#### ▲ Contamination

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

#### Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

			Dec2023	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0936964	WC0838004	
Sample Date		Client Info		05 Mar 2024	19 Dec 2023	
Machine Age	hrs	Client Info		2640	2619	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				SEVERE	SEVERE	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>994</b>	<b>2</b> 131	
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u>^</u> 21	
Nickel	ppm	ASTM D5185m	>10	3	4	
Titanium	ppm	ASTM D5185m		7	15	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<b>7</b> 3	<b>183</b>	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m	>50	33	18	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		1	2	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	169	114	
Barium	ppm	ASTM D5185m	200	<1	<1	
Molybdenum	ppm	ASTM D5185m	12	61	57	
Manganese	ppm	ASTM D5185m		11	<b>2</b> 3	
Magnesium	ppm	ASTM D5185m	12	<b>346</b>	309	
Calcium	ppm	ASTM D5185m	150	<u> </u>	<b>1797</b>	
Phosphorus	ppm	ASTM D5185m	1650	1194	1013	
Zinc	ppm	ASTM D5185m	125	<u> </u>	1131	
Sulfur	ppm	ASTM D5185m	22500	<b>4078</b>	3399	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>457</b>	<b>▲</b> 1174	
Sodium	ppm	ASTM D5185m	>170	6	9	
Potassium	ppm	ASTM D5185m	>20	23	45	
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	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WC0936964 Lab Number : 06174347 Unique Number : 11020400

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024 : 10 May 2024 **Tested** 

Diagnosed : 13 May 2024 - Don Baldridge

TULSA, OK US 74146 Contact: BEN CALDWELL

**MANHATTAN ROAD AND BRIDGE** 

kevin.marson@wearcheck.com T: (918)728-5749

5601 S 122ND E AVE

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)