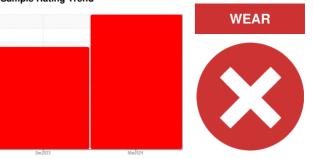


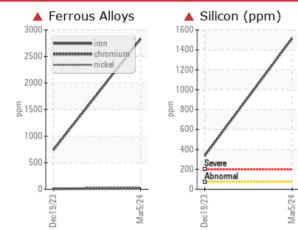
## **PROBLEM SUMMARY**

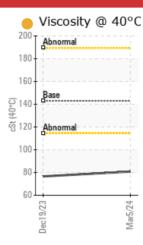
Sample Rating Trend

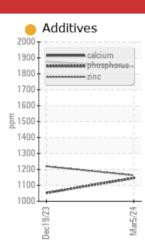


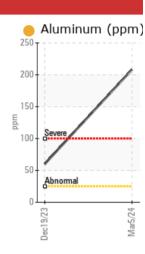
Machine Id **30-67** Component Left Final Drive Fluid GEAR OIL SAE 80W90 (--- GAL)

#### 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE				
Iron	ppm	ASTM D5185m	>500	<b>a</b> 2834	738				
Chromium	ppm	ASTM D5185m	>10	<b>4</b> 23	9				
Silicon	ppm	ASTM D5185m	>75	🔺 1516	▲ 337				

Customer Id: MANTUL Sample No.: WC0936963 Lab Number: 06174346 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 ACTIONS						
Action Inspect Wear Source	Status	Date	Done By ?	<b>Description</b> We advise that you inspect for the source(s) of wear.		
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 We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.All component wear rates are normal. 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. Confirm oil type.







### **OIL ANALYSIS REPORT**



### Machine Id 30-67 Component Left Final Drive Fluid 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

#### A Wear

Gear wear is indicated.

#### Contamination

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

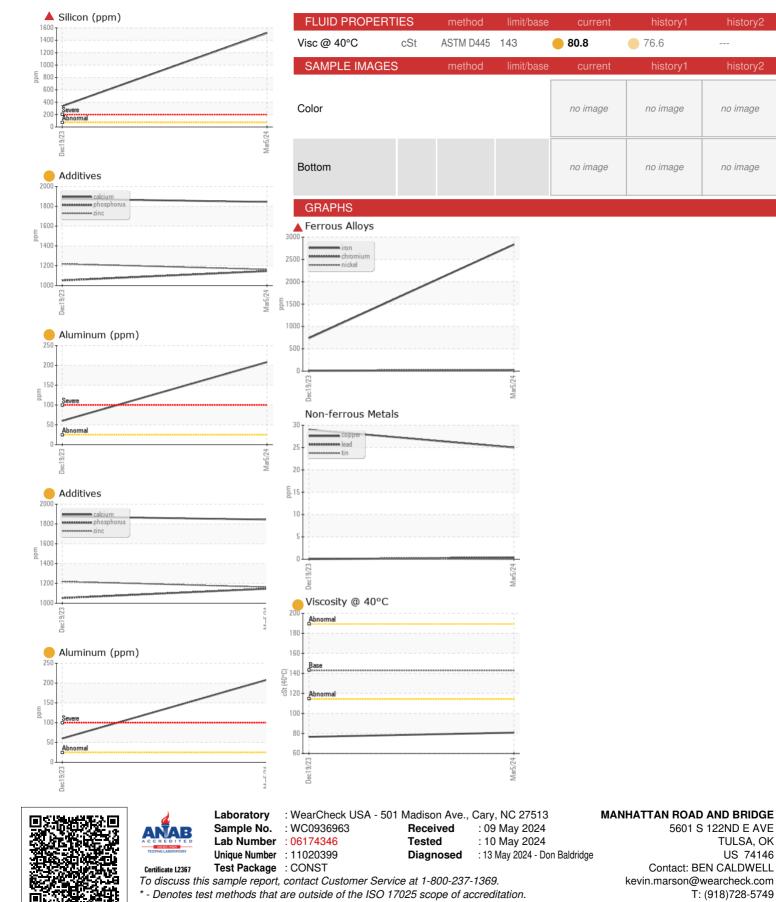
#### Fluid Condition

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0936963	WC0838006	
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	٧	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>2834</b>	738	
Chromium	ppm	ASTM D5185m	>10	<u> </u>	9	
Nickel	ppm	ASTM D5185m	>10	7	2	
Titanium	ppm	ASTM D5185m		18	6	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	60	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m	>50	25	29	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		2	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	156	126	
Barium	ppm	ASTM D5185m	200	2	0	
Molybdenum	ppm	ASTM D5185m	12	58	59	
Manganese	ppm	ASTM D5185m		<u> </u>	9	
Magnesium	ppm	ASTM D5185m	12	309	345	
Calcium	ppm	ASTM D5185m	150	1844	1875	
Phosphorus	ppm	ASTM D5185m	1650	1146	1052	
Zinc	ppm	ASTM D5185m	125	<b>1163</b>	1219	
Sulfur	ppm	ASTM D5185m	22500	4662	3694	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>1</b> 516	▲ 337	
Sodium	ppm	ASTM D5185m	>170	12	4	
Potassium	ppm	ASTM D5185m	>20	58	16	
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	
	oodidi				on: BEN CALDW	



# **OIL ANALYSIS REPORT**



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: MANTUL [WUSCAR] 06174346 (Generated: 05/13/2024 12:03:56) Rev: 1

Contact/Location: BEN CALDWELL - MANTUL

E:

TULSA, OK

US 74146

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