

# **PROBLEM SUMMARY**

Jun12/21

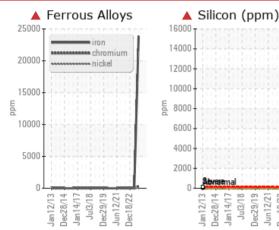
Dec18/22

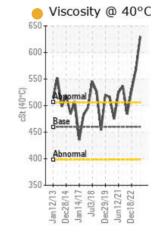
## Area [604346580 SDR] 3 SLATE CONV PRI (S/N 20058866)

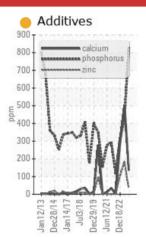
Gearbox Fluid

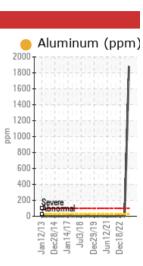
GEAR OIL ISO 460 (--- GAL)

### COMPONENT CONDITION SUMMARY









### 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. 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	NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>200	<b>4</b> 23862	8	5	
Chromium	ppm	ASTM D5185m	>15	<b>298</b>	0	0	
Nickel	ppm	ASTM D5185m	>15	<u> </u>	0	0	
Silicon	ppm	ASTM D5185m	>50	<b>4</b> 14876	10	6	
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	NONE	

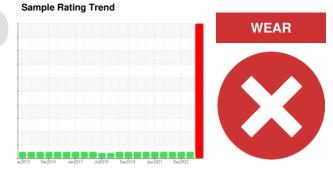
Customer Id: MARSCHI Sample No.: WC0854540 Lab Number: 06211896 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED A	MMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.		
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



### 16 Jun 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report



#### 18 Dec 2022 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 component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 23 Jun 2022 Diag: Angela Borella

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









# **OIL ANALYSIS REPORT**

## Area [604346580 SDR] 3 SLATE CONV PRI (S/N 20058866)

Gearbox Fluid

GEAR OIL ISO 460 (--- GAL)

### DIAGNOSIS

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

### A Wear

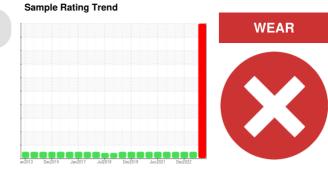
Gear wear is indicated.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

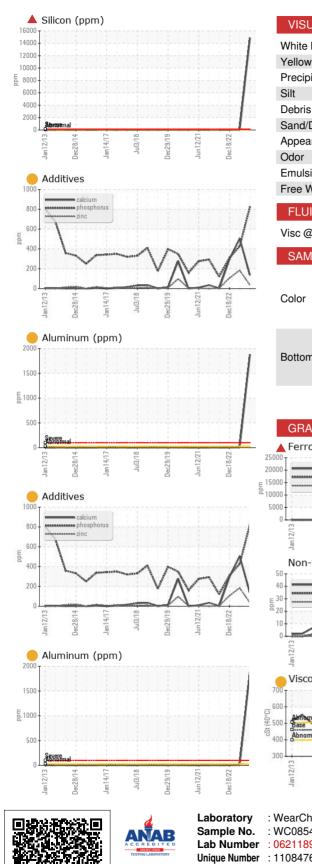
The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.



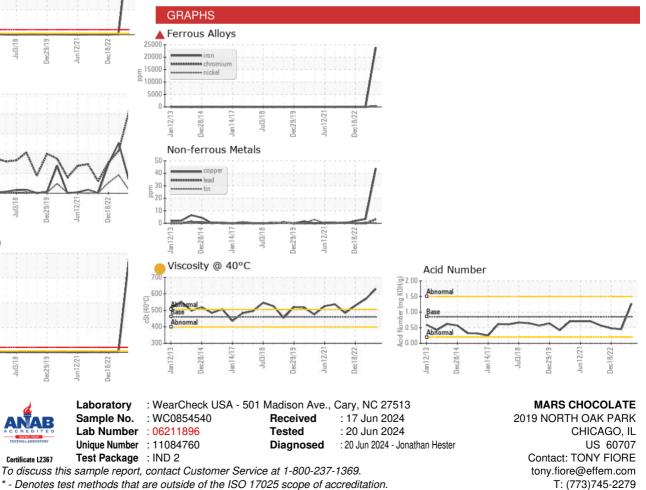
SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854540	WC0605456	WC0605360
Sample Date		Client Info		07 Jun 2024	16 Jun 2023	18 Dec 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>2</b> 3862	8	5
Chromium	ppm	ASTM D5185m	>15	<b>4</b> 298	0	0
Nickel	ppm	ASTM D5185m	>15	<u> </u>	0	0
Titanium	ppm	ASTM D5185m		212	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<mark> </mark> 1877	4	<1
Lead	ppm	ASTM D5185m	>100	3	0	0
Copper	ppm	ASTM D5185m	>200	44	3	2
Tin	ppm	ASTM D5185m	>25	0	<1	<1
Vanadium	ppm	ASTM D5185m		6	0	0
Cadmium	ppm	ASTM D5185m		1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<mark> </mark> 188	2	0
Barium	ppm	ASTM D5185m	15	5	0	0
Molybdenum	ppm	ASTM D5185m	15	<b>4</b> 1	0	<1
Manganese	ppm	ASTM D5185m		194	0	0
Magnesium	ppm	ASTM D5185m	50	62	3	2
Calcium	ppm	ASTM D5185m	50	<mark> </mark> 135	505	295
Phosphorus	ppm	ASTM D5185m	350	<b>e</b> 824	427	309
Zinc	ppm	ASTM D5185m	100	34	184	105
Sulfur	ppm	ASTM D5185m	12500	90334	974	1048
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>1</b> 4876	10	6
Sodium	ppm	ASTM D5185m		104	0	0
Potassium	ppm	ASTM D5185m	>20	384	2	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.27	0.45	0.48



# **OIL ANALYSIS REPORT**



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	🔺 MODER	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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	630	568	529
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						



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

Report Id: MARSCHI [WUSCAR] 06211896 (Generated: 06/21/2024 22:32:14) Rev: 1

Contact/Location: TONY FIORE - MARSCHI

E: