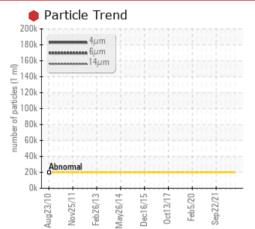
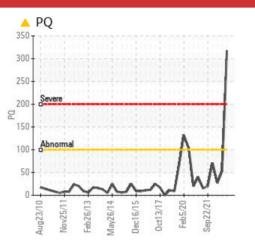


Banbury 2 **BB02 C Roll Drive** Component

Gearbox Fluid SHELL OMALA S2 G 220 (50 GAL)

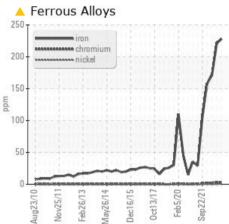
COMPONENT CONDITION SUMMARY







Sample Rating Trend



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184*		<u> </u>	53	27
Iron	ppm	ASTM D5185(m)	>200	<u> </u>	A 221	171
Particles >4µm		ASTM D7647	>20000	e 188536		
Particles >6µm		ASTM D7647	>5000	🛑 163456		
Particles >14µm		ASTM D7647	>640	60663		
Particles >21µm		ASTM D7647	>160	🛑 16845		
Particles >38µm		ASTM D7647	>40	<u> </u>		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	• 25/25/23		
White Metal	scalar	Visual*	NONE	A MODER	LIGHT	NONE
Yellow Metal	scalar	Visual*	NONE	🔺 LIGHT	NONE	NONE
PrtFilter				W. S. Co	no image	no image

Customer Id: GOONAP Sample No.: WC0841267 Lab Number: 02579805 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
Check For Visual Metal			?	We advise that you check for visible metal particles in the oil.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS

05 Feb 2023 Diag: Kevin Marson



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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



view report

27 Oct 2022 Diag: Kevin Marson

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.

05 Nov 2021 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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

Banbury 2 **BB02 C Roll Drive** Component

Gearbox Fluid SHELL OMALA S2 G 220 (50 GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

A Wear

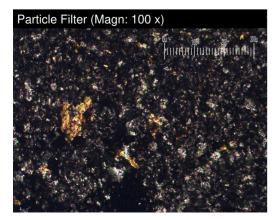
PQ levels are abnormal. Iron ppm levels are abnormal. Moderate concentration of visible metal present. Bearing and/or bushing wear is indicated. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

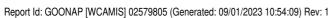
Contamination

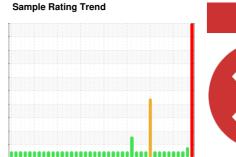
There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.









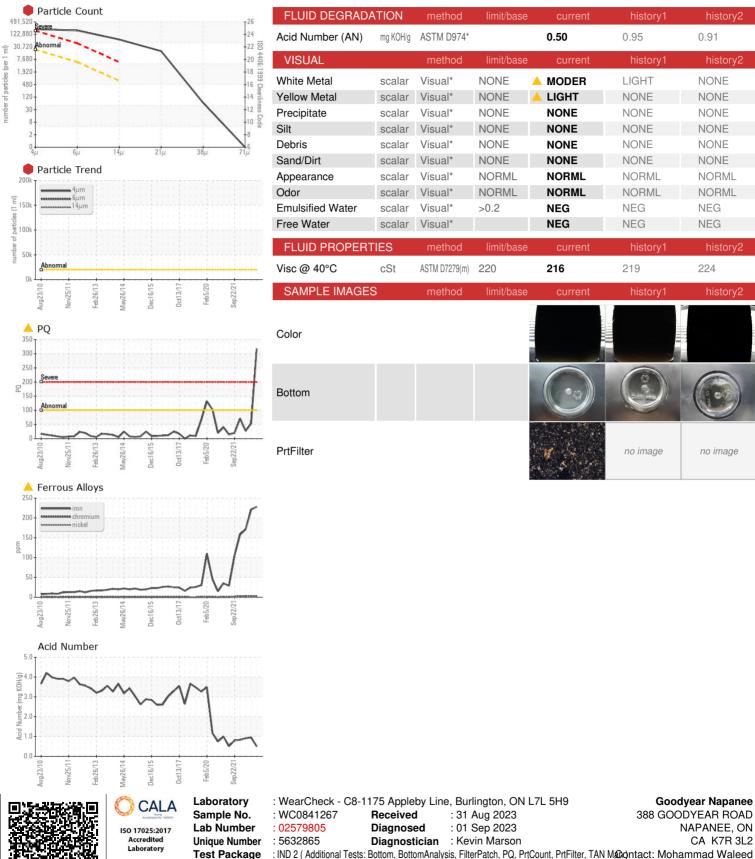
WEAR

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0841267	WC0754392	WC0664081
Sample Date		Client Info		25 Aug 2023	05 Feb 2023	27 Oct 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		4 317	53	27
Iron	ppm	ASTM D5185(m)	>200	<u> </u>	A 221	171
Chromium	ppm	ASTM D5185(m)	>15	2	3	2
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	1	<1
Lead	ppm	ASTM D5185(m)	>100	4	2	2
Copper	ppm	ASTM D5185(m)	>200	42	24	21
Tin	ppm	ASTM D5185(m)	>25	<1	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
	lele	X 7				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.4	<1	<1	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	20	81	74
Manganese	ppm	ASTM D5185(m)		2	2	1
Magnesium	ppm	ASTM D5185(m)	0	0	0	<1
Calcium	ppm	ASTM D5185(m)		3	13	13
Phosphorus	ppm	ASTM D5185(m)	215	263	367	360
Zinc	ppm	ASTM D5185(m)		78	149	132
Sulfur	ppm	ASTM D5185(m)	7039	7915	9433	9050
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	3	5	4
Sodium	ppm	ASTM D5185(m)		<1	1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	e 188536		
Particles >6µm		ASTM D7647	>5000	• 163456		
Particles >14µm		ASTM D7647	>640	60663		
Particles >21µm		ASTM D7647	>160	16845		
Particles >38µm		ASTM D7647	>40	▲ 57		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	25/25/23		
				÷		



number of particles (per 1

OIL ANALYSIS REPORT



Mohammad_Waleed@goodyear.com To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (613)354-7709 Validity of results and interpretation are based on the sample and information as supplied. F: (613)354-9377

CA K7R 3L2

0.91

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

224

no image

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