

PROBLEM SUMMARY

Sample Rating Trend

ADDITIVES

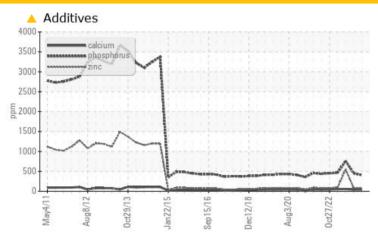


Banbury 2 Machine Id BB02 South Ext Top Component

Gearbox

SHELL OMALA S2 G 220 (40 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	ATTENTION	ABNORMAL		
Molybdenum	ppm	ASTM D5185(m)	0	^ 269	<u>^</u> 261	0		
Calcium	ppm	ASTM D5185(m)	0	45	<u>44</u>	▲ 57		
Zinc	ppm	ASTM D5185(m)	0	A 84	<u>^</u> 85	<u></u> 551		

Customer Id: GOONAP Sample No.: WC0873595 Lab Number: 02602422 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
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

25 Aug 2023 Diag: Kevin Marson

ADDITIVES



Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WFAR



25 Apr 2023 Diag: Kevin Marson

Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit. Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



05 Feb 2023 Diag: Kevin Marson

Normal



Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

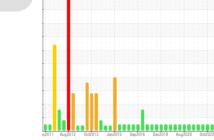


Banbury 2 BB02 South Ext Top

Component

Gearbox

SHELL OMALA S2 G 220 (40 GAL)





Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		iy2011 Aug20	12 Oct2013 Jan2015	Sep2016 Dec2018 Aug2020	0et2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0873595	WC0841273	WC0299465
Sample Date		Client Info		05 Nov 2023	25 Aug 2023	25 Apr 2023
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				ATTENTION	ATTENTION	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>200	12	11	34
Chromium	ppm	ASTM D5185(m)	>15	0	0	<1
Nickel	ppm	ASTM D5185(m)	>15	0	0	2
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	6
Lead	ppm	ASTM D5185(m)	>100	<1	<1	18
Copper	ppm	ASTM D5185(m)	>200	1	1	<u> </u>
Tin	ppm	ASTM D5185(m)	>25	0	0	<1
Antimony	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.4	2	2	1
Barium	ppm	ASTM D5185(m)	0.0	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	^ 269	<u>^</u> 261	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	2	1	<u>^</u> 28
Calcium	ppm	ASTM D5185(m)	0	45	<u>44</u>	▲ 57
Phosphorus	ppm	ASTM D5185(m)	215	408	448	△ 759
Zinc	ppm	ASTM D5185(m)	0	<u>^</u> 84	▲ 85	△ 551
Sulfur	ppm	ASTM D5185(m)	7039	8725	8800	<u>^</u> 2250
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)	>50	14	12	17
Silicon	PPIII					
Silicon Sodium	ppm	ASTM D5185(m)		1	<1	7
		ASTM D5185(m) ASTM D5185(m)	>20	0	<1 0	7 <1
Sodium	ppm ppm		>20 limit/base			



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WC0873595 : 02602422 : 5695507

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

Diagnostician

: 12 Dec 2023 : Kevin Marson

: 11 Dec 2023

Test Package : IND 2 (Additional Tests: TAN Man) To discuss this sample report, contact Customer Service at 1-800-268-2131. **Goodyear Napanee** 388 Goodyear Road Napanee, ON

CA K7R 3L2 Contact: Mohammad Waleed Mohammad_Waleed@goodyear.com

T: (613)354-7709 F: (613)354-9377

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.