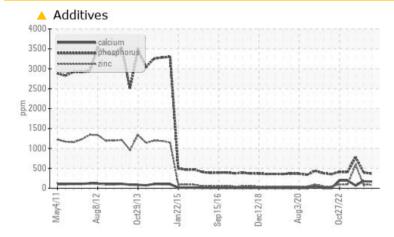


PROBLEM SUMMARY

Area Banbury 2 Machine Id BB02 North Ext Top Component

Gearbox Fluid SHELL OMALA 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	<u> </u>	A 84	0		
Calcium	ppm	ASTM D5185(m)	0	🔺 167	1 75	<u> </u>		
Zinc	ppm	ASTM D5185(m)	0	<u> </u>	<u> </u>	<u>▲</u> 587		

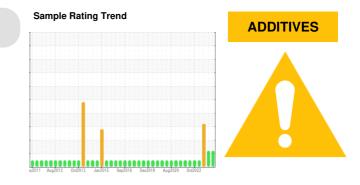
Customer Id: GOONAP Sample No.: WC0873592 Lab Number: 02602399 Test Package: IND 2



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 <u>gloria.gonzalez@wearcheck.com</u>



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

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.

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 SAE 30 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.



view report

NORMAL



05 Feb 2023 Diag: Kevin Marson

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

Area Banbury 2 Machine Id BB02 North Ext Top Component

Gearbox Fluid SHELL OMALA 220 (40 GAL)

DIAGNOSIS

A Recommendation

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

Wear

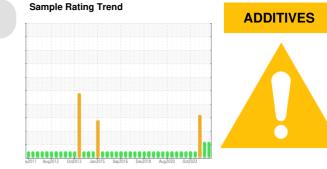
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

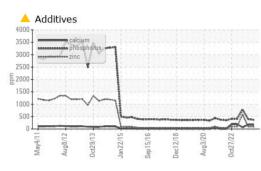
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

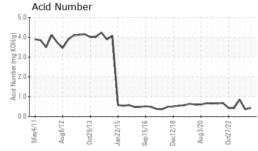


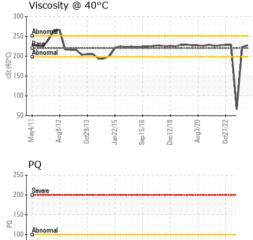
		and the state	Pare 10 /le anno 1		Interface and	la la tarra d
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0873592	WC0841270	WC22128044
Sample Date		Client Info		05 Nov 2023	25 Aug 2023	25 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL
CONTAMINATION	N	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	11	10	38
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	7
Lead	ppm	ASTM D5185(m)	>100	1	<1	18
Copper	ppm	ASTM D5185(m)	>200	2	2	1 37
Tin	ppm	ASTM D5185(m)	>25	0	0	<1
Antimony	ppm	ASTM D5185(m)	>5	0	0	<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	<u> </u>	A 84	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	1	1	A 31
Calcium	ppm	ASTM D5185(m)	0	🔺 167	1 75	<u> </u>
Phosphorus	ppm	ASTM D5185(m)	215	367	394	<u> </u>
Zinc	ppm	ASTM D5185(m)	0	<mark>人</mark> 85	<mark>/</mark> 89	▲ 587
Sulfur	ppm	ASTM D5185(m)	7039	8472	8484	2 363
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	11	11	16
Sodium	ppm	ASTM D5185(m)		<1	<1	2
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.44	0.37	0.86
	0 - 0					



OIL ANALYSIS REPORT







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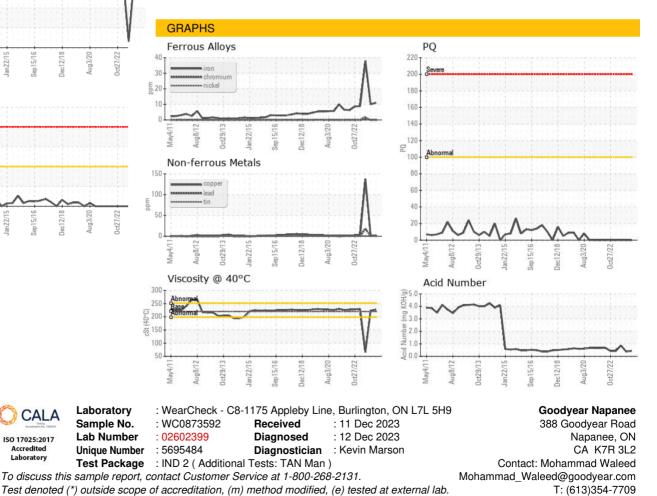
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Validity of results and interpretation are based on the sample and information as supplied.



Report Id: GOONAP [WCAMIS] 02602399 (Generated: 12/12/2023 13:05:20) Rev: 1

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