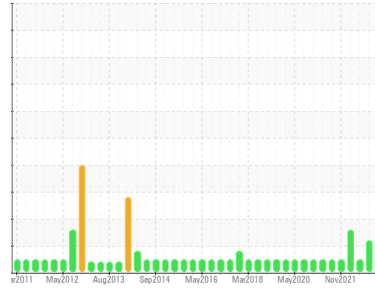




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**TC01**  
Machine Id  
**TC01 Top 6 Inch**

Component  
**Gearbox**  
Fluid  
**SHELL OMALA S2 G 320 (40 GAL)**

## DIAGNOSIS

### Recommendation

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.

### 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0841282</b>	WC22128056	WC0754407
Sample Date	Client Info	<b>25 Aug 2023</b>	25 Apr 2023	05 Feb 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	3
Iron	ppm ASTM D5185(m) >200	<b>99</b>	37	91
Chromium	ppm ASTM D5185(m) >15	<b>&lt;1</b>	<1	0
Nickel	ppm ASTM D5185(m) >15	<b>0</b>	2	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	<1	0
Silver	ppm ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185(m) >25	<b>&lt;1</b>	7	<1
Lead	ppm ASTM D5185(m) >100	<b>&lt;1</b>	18	<1
Copper	ppm ASTM D5185(m) >200	<b>&lt;1</b>	▲ 129	<1
Tin	ppm ASTM D5185(m) >25	<b>0</b>	<1	0
Antimony	ppm ASTM D5185(m) >5	<b>0</b>	<1	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	<1	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 5.5	<b>&lt;1</b>	<1	2
Barium	ppm ASTM D5185(m) 0.4	<b>&lt;1</b>	<1	0
Molybdenum	ppm ASTM D5185(m) 0.5	<b>60</b>	0	56
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 23	<b>4</b>	35	4
Calcium	ppm ASTM D5185(m) 13	<b>31</b>	72	31
Phosphorus	ppm ASTM D5185(m) 450	<b>293</b>	769	296
Zinc	ppm ASTM D5185(m) 9.9	<b>101</b>	579	90
Sulfur	ppm ASTM D5185(m) 8181	<b>9588</b>	2304	9705
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

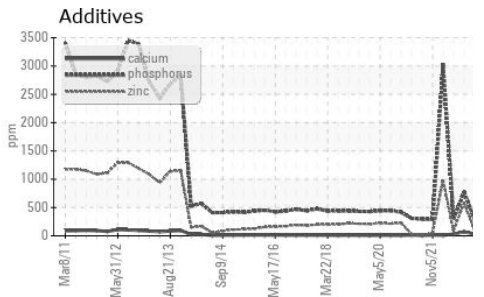
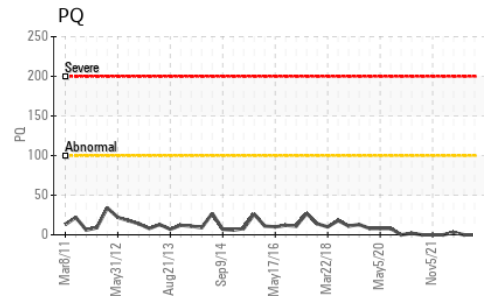
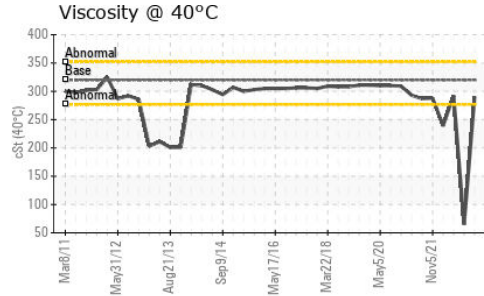
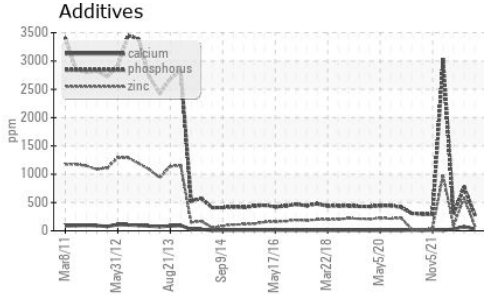
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	<b>13</b>	30	12
Sodium	ppm ASTM D5185(m)	<b>2</b>	3	2
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	<b>0.54</b>	1.00	0.52



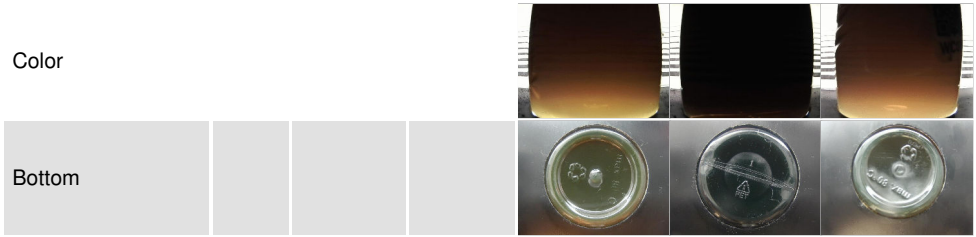
# OIL ANALYSIS REPORT



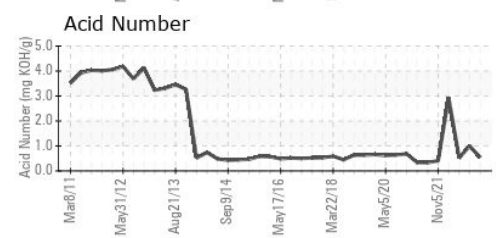
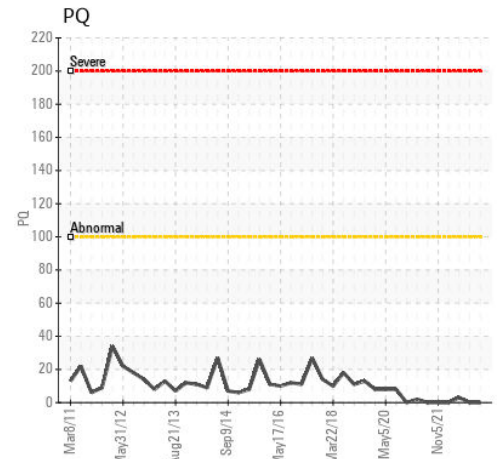
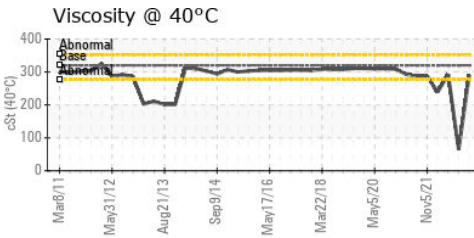
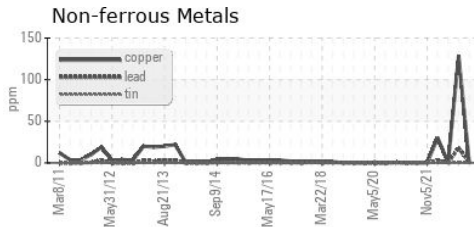
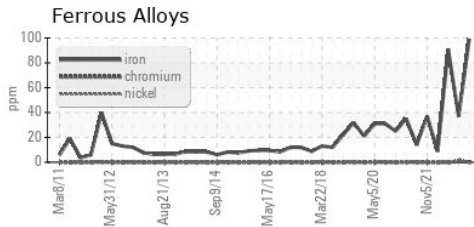
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	320	290 ▲ 64.8	292

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0841282 **Received** : 31 Aug 2023  
**Lab Number** : 02579784 **Tested** : 01 Sep 2023  
**Unique Number** : 5632844 **Diagnosed** : 01 Sep 2023 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Goodyear Napanee**  
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 Napanee, ON  
 CA K7R 3L2  
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 grant\_cinnamon@goodyear.com  
 T:  
 F: (613)354-9377

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