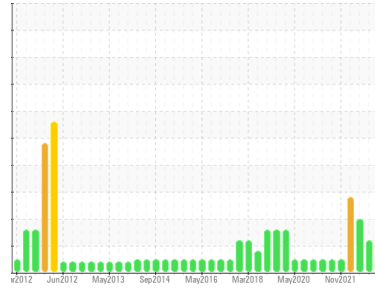




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
TC01
Machine Id
TC01 10 Inch Top

Component
Gearbox
Fluid
SHELL OMALA S2 G 320 (105 GAL)

DIAGNOSIS

Recommendation

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

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		WC0841279	WC22128053	WC0754404
Sample Date	Client Info		25 Aug 2023	25 Apr 2023	05 Feb 2023
Machine Age	Client Info		0	0	0
Oil Age	Client Info		0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	▲ 249
Iron	ppm ASTM D5185(m)	>200	10	40	122
Chromium	ppm ASTM D5185(m)	>15	0	<1	2
Nickel	ppm ASTM D5185(m)	>15	0	2	<1
Titanium	ppm ASTM D5185(m)		0	<1	0
Silver	ppm ASTM D5185(m)		0	0	0
Aluminum	ppm ASTM D5185(m)	>25	<1	9	6
Lead	ppm ASTM D5185(m)	>100	0	19	0
Copper	ppm ASTM D5185(m)	>200	<1	▲ 135	3
Tin	ppm ASTM D5185(m)	>25	0	<1	0
Antimony	ppm ASTM D5185(m)	>5	0	0	0
Vanadium	ppm ASTM D5185(m)		0	<1	0
Beryllium	ppm ASTM D5185(m)		0	0	0
Cadmium	ppm ASTM D5185(m)		0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	5.5	<1	<1	<1
Barium	ppm ASTM D5185(m)	0.4	0	<1	0
Molybdenum	ppm ASTM D5185(m)	0.5	7	0	623
Manganese	ppm ASTM D5185(m)		<1	<1	1
Magnesium	ppm ASTM D5185(m)	23	2	28	<1
Calcium	ppm ASTM D5185(m)	13	5	72	13
Phosphorus	ppm ASTM D5185(m)	450	322	807	1248
Zinc	ppm ASTM D5185(m)	9.9	29	600	365
Sulfur	ppm ASTM D5185(m)	8181	9185	2434	7303
Lithium	ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

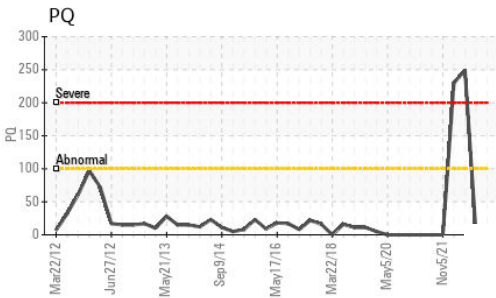
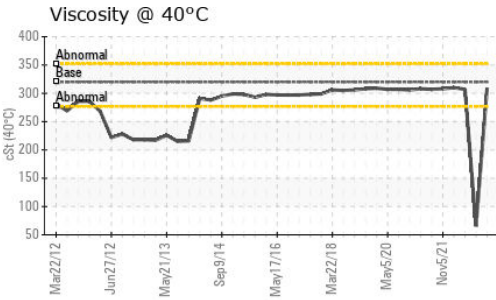
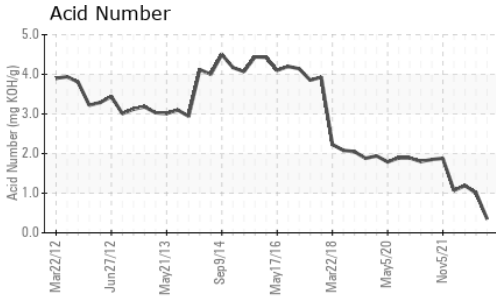
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>50	4	20	11
Sodium	ppm ASTM D5185(m)		<1	3	<1
Potassium	ppm ASTM D5185(m)	>20	<1	0	0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		0.35	1.01	1.19



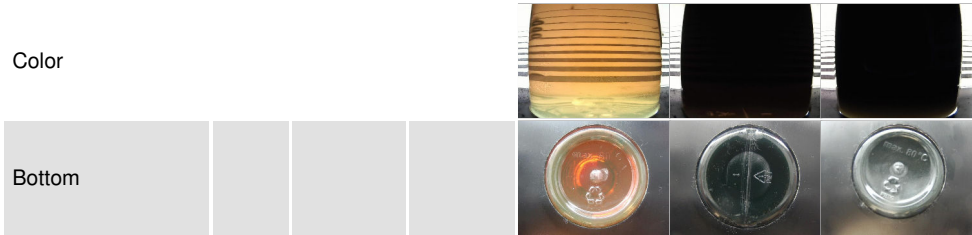
OIL ANALYSIS REPORT



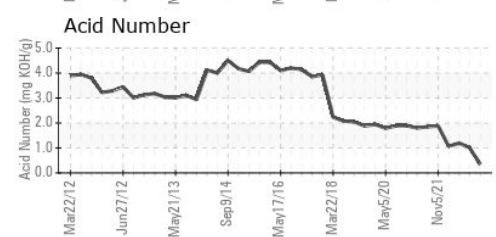
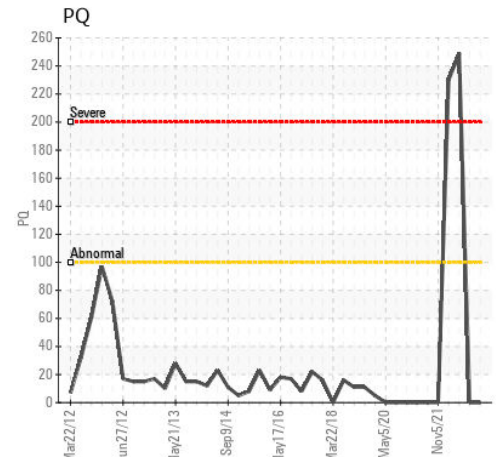
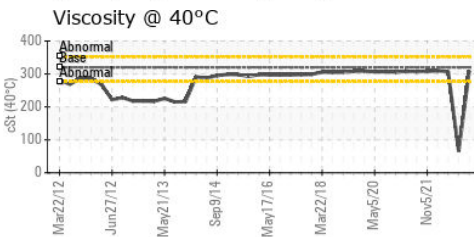
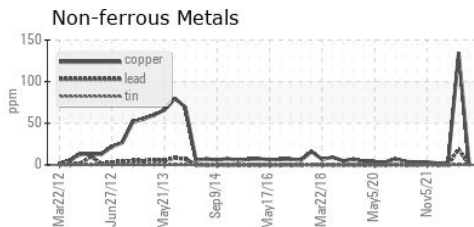
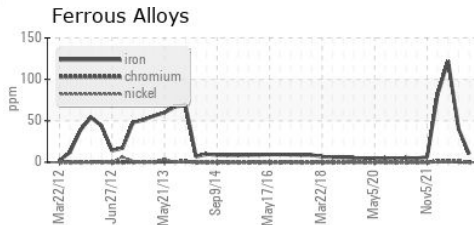
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	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 PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	320	309	▲ 65.7	307

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. : WC0841279 **Received** : 31 Aug 2023
Lab Number : **02579785** **Diagnosed** : 01 Sep 2023
Unique Number : 5632845 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: PQ)

Goodyear Napanee
 388 GOODYEAR ROAD
 NAPANEE, ON
 CA K7R 3L2
 Contact: Grant Cinnamon
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 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.