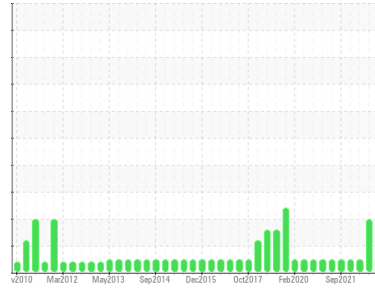




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
TC01
 Machine Id
TC01 4.5 Inch
 Component
Gearbox
 Fluid
SHELL OMALA S2 G 220 (40 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			WC0841280	WC0754405	WC0664094
Sample Date	Client Info			05 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				NORMAL	ABNORMAL	NORMAL

CONTAMINATION		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	178	▲ 363	19
Chromium	ppm	ASTM D5185(m)	>15	1	2	0
Nickel	ppm	ASTM D5185(m)	>15	4	▲ 18	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	4	1
Lead	ppm	ASTM D5185(m)	>100	<1	2	7
Copper	ppm	ASTM D5185(m)	>200	10	36	3
Tin	ppm	ASTM D5185(m)	>25	0	0	<1
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

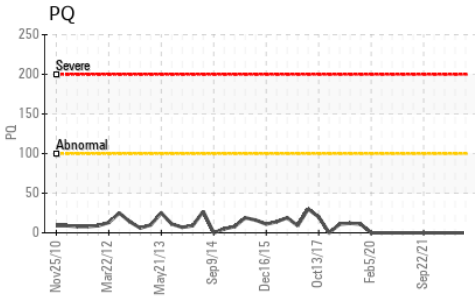
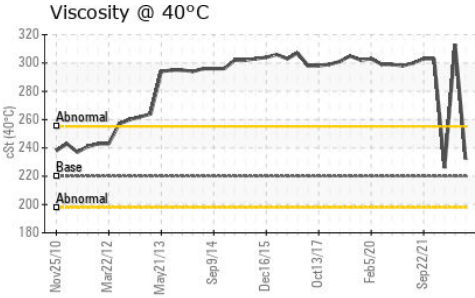
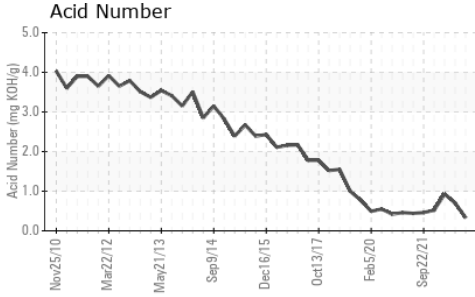
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.4	<1	4	5
Barium	ppm	ASTM D5185(m)	0.0	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	66	151	116
Manganese	ppm	ASTM D5185(m)		1	5	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	2	<1
Calcium	ppm	ASTM D5185(m)	0	10	27	43
Phosphorus	ppm	ASTM D5185(m)	215	298	375	469
Zinc	ppm	ASTM D5185(m)	0	64	220	112
Sulfur	ppm	ASTM D5185(m)	7039	9125	9033	9828
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	5	8	23
Sodium	ppm	ASTM D5185(m)		3	8	2
Potassium	ppm	ASTM D5185(m)	>20	11	6	1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.33	0.70	0.93



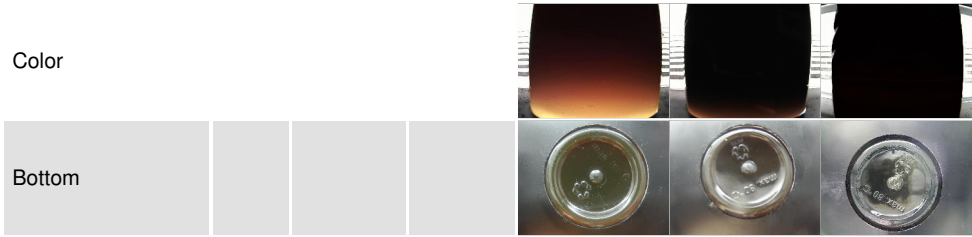
OIL ANALYSIS REPORT



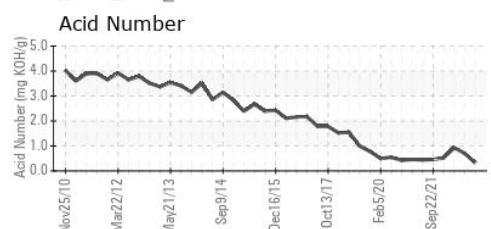
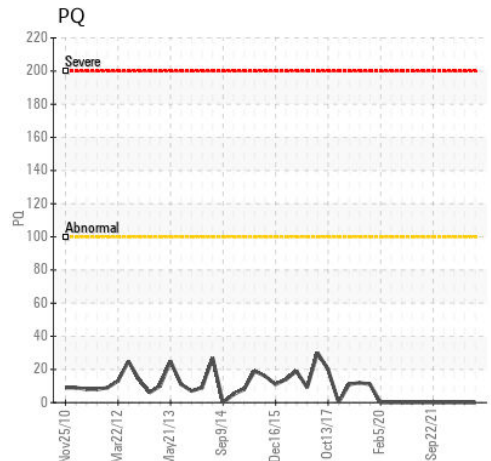
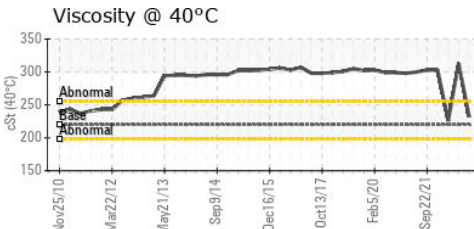
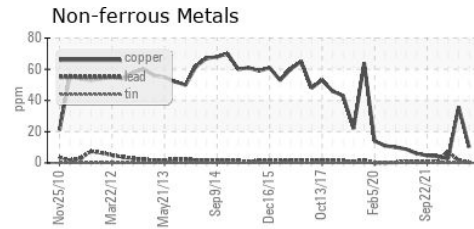
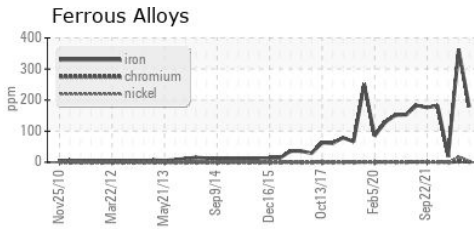
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	220	232	313

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. : WC0841280 **Received** : 31 Aug 2023
Lab Number : 02579804 **Tested** : 01 Sep 2023
Unique Number : 5632864 **Diagnosed** : 01 Sep 2023 - Wes Davis
Test Package : IND 2 (Additional Tests: TAN Man)

Goodyear Napanee
 388 Goodyear Road
 Napanee, ON
 CA K7R 3L2
 Contact: Grant Cinnamon
 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.