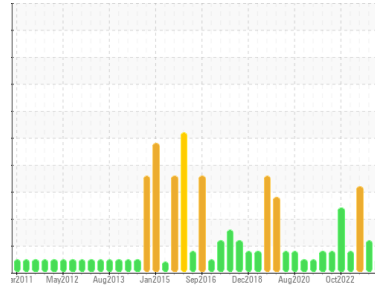




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Banbury 1
 Machine Id
BB01 Mori Screw Drive
 Component
Gearbox
 Fluid
SHELL OMALA S2 G 220 (50 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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			WC0873584	WC0841262	WC22128036
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				NORMAL	ABNORMAL	ABNORMAL

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

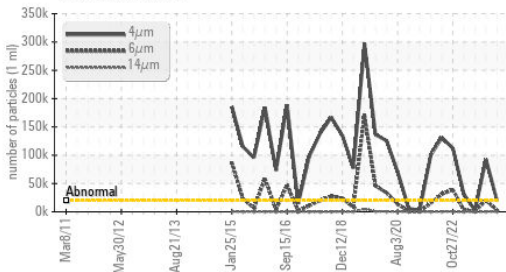
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	<1	7	37
Chromium	ppm	ASTM D5185(m)	>15	0	0	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	2
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>25	0	<1	9
Lead	ppm	ASTM D5185(m)	>100	<1	0	18
Copper	ppm	ASTM D5185(m)	>200	<1	<1	▲ 133
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	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0.0	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	1	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	▲ 26
Calcium	ppm	ASTM D5185(m)	0	<1	1	▲ 63
Phosphorus	ppm	ASTM D5185(m)	215	297	330	▲ 776
Zinc	ppm	ASTM D5185(m)	0	2	3	▲ 575
Sulfur	ppm	ASTM D5185(m)	7039	11901	9430	▲ 2312
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

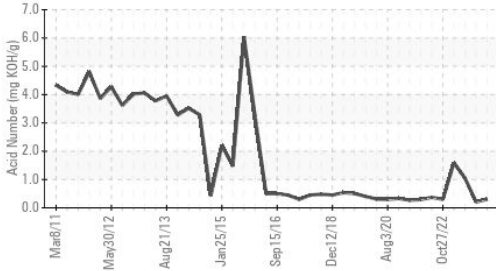
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	4	4	20
Sodium	ppm	ASTM D5185(m)		<1	0	3
Potassium	ppm	ASTM D5185(m)	>20	0	<1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	19459	▲ 92602	2965
Particles >6µm		ASTM D7647	>5000	2729	▲ 20246	746
Particles >14µm		ASTM D7647	>640	95	575	38
Particles >21µm		ASTM D7647	>160	22	125	8
Particles >38µm		ASTM D7647	>40	8	13	0
Particles >71µm		ASTM D7647	>10	7	9	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/14	▲ 24/22/16	19/17/12

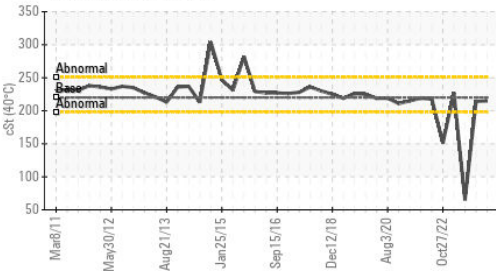
Particle Trend



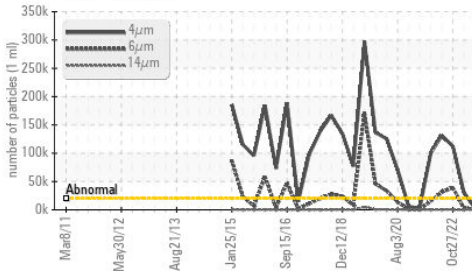
Acid Number



Viscosity @ 40°C



Particle Trend



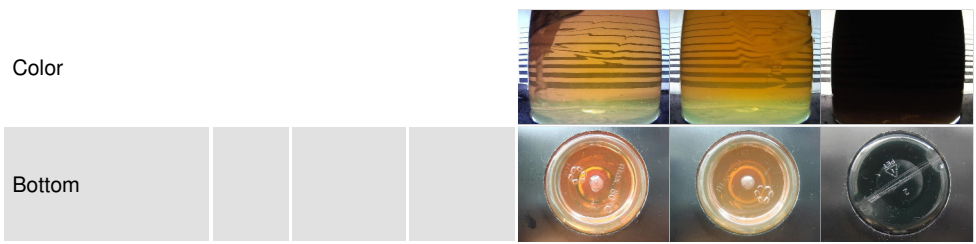
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	0.30	0.21	1.05
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	NEG

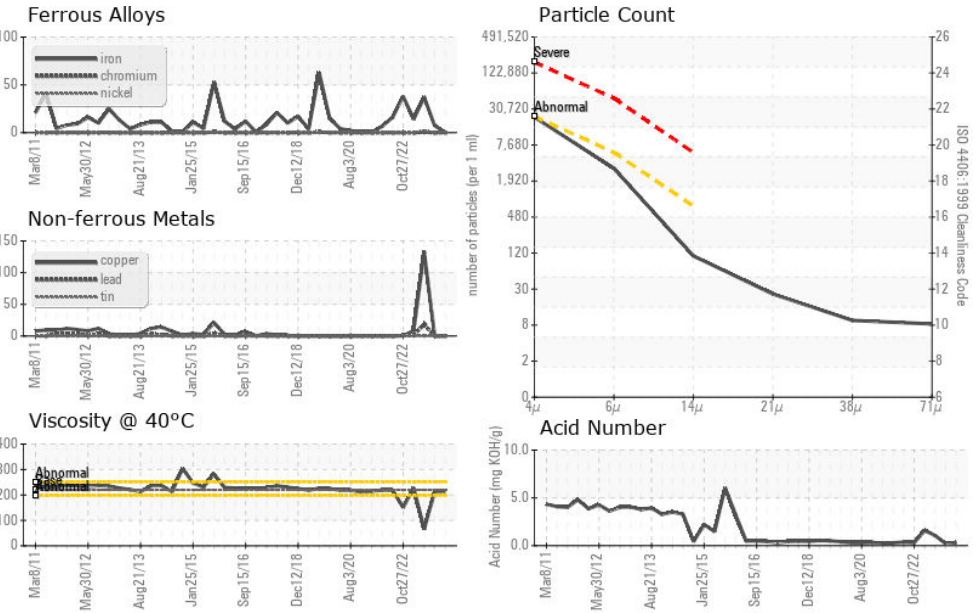
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m)	215	214	▲ 65.2

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0873584 **Received** : 11 Dec 2023
Lab Number : 02602424 **Diagnosed** : 12 Dec 2023
Unique Number : 5695509 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: PrtCount, TAN Man)

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

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.