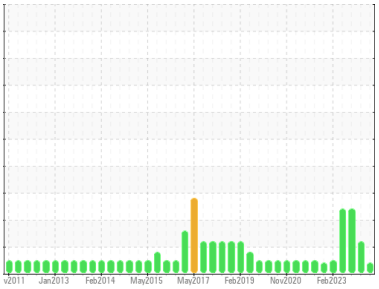
PROBLEM SUMMARY

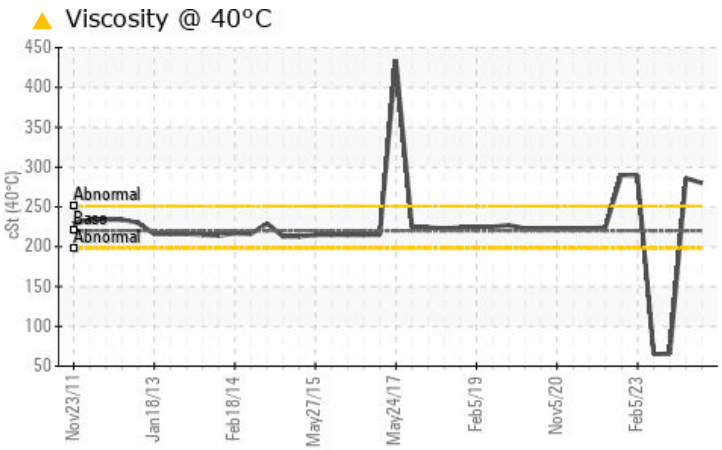
Sample Rating Trend



VISCOSITY

Area
GC01
Machine Id
GC01 8 Inch Extruder GB
Component
Gearbox
Fluid
SHELL OMALA S2 G 220 (180 Kg)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ **280**	▲ 286	▲ 65.6

Customer Id: GOONAP
Sample No.: WC0873604
Lab Number: 02602414
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
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

25 Aug 2023 Diag: Kevin Marson

VISCOSITY

We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.All component wear rates are normal. Lithium (Li) level abnormal at 42ppm., indicates possible grease contamination. Viscosity of sample indicates oil is within ISO 320 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 due to the presence of contaminants.

view report

25 Apr 2023 Diag: Kevin Marson

VISCOSITY

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.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 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.

view report

25 Apr 2023 Diag: Kevin Marson

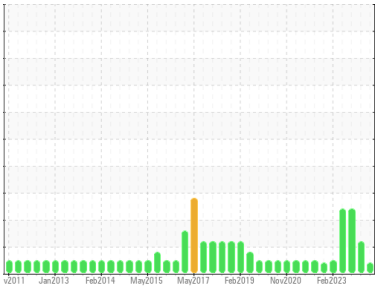
VISCOSITY

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.All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 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.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
GC01
Machine Id
GC01 8 Inch Extruder GB
Component
Gearbox
Fluid
SHELL OMALA S2 G 220 (180 Kg)

DIAGNOSIS

Recommendation
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
Viscosity of sample indicates oil is within ISO 320 range, advise investigate. 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		**WC0873604**	WC0841276	WC0299468
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				**ABNORMAL**	ABNORMAL	ABNORMAL

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

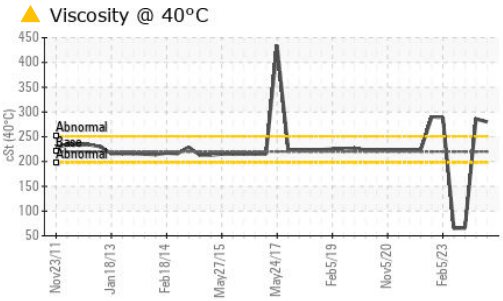
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	36	0
Iron	ppm	ASTM D5185(m)	>200	**35**	91	38
Chromium	ppm	ASTM D5185(m)	>15	**<1**	2	<1
Nickel	ppm	ASTM D5185(m)	>15	**<1**	<1	2
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)		**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	1	8
Lead	ppm	ASTM D5185(m)	>100	**<1**	<1	18
Copper	ppm	ASTM D5185(m)	>200	**1**	3	128
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

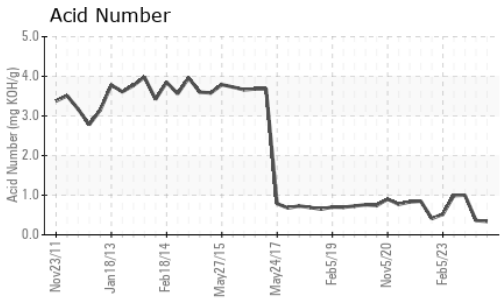
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	4.4	**4**	7	1
Barium	ppm	ASTM D5185(m)	0.0	**<1**	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	**28**	▲ 109	0
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	**1**	1	▲ 30
Calcium	ppm	ASTM D5185(m)	0	**12**	24	▲ 69
Phosphorus	ppm	ASTM D5185(m)	215	**250**	342	▲ 797
Zinc	ppm	ASTM D5185(m)	0	**31**	43	▲ 593
Sulfur	ppm	ASTM D5185(m)	7039	**7878**	7941	▲ 2392
Lithium	ppm	ASTM D5185(m)		**9**	▲ 42	<1

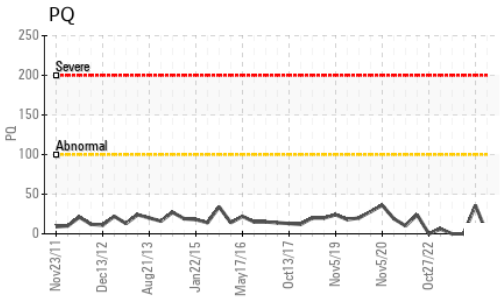
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**7**	9	18
Sodium	ppm	ASTM D5185(m)		**<1**	1	8
Potassium	ppm	ASTM D5185(m)	>20	**4**	11	2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.34**	0.36	1.00

OIL ANALYSIS REPORT



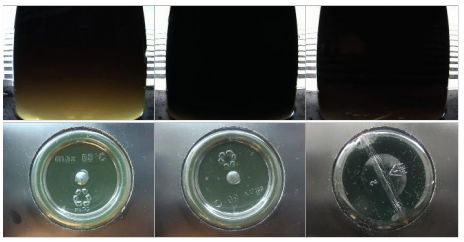




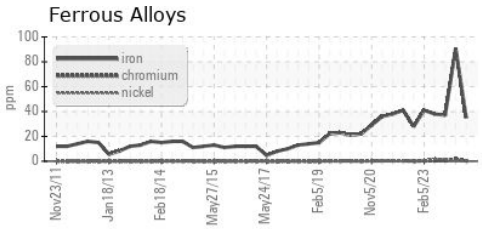
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Sand/Dirt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

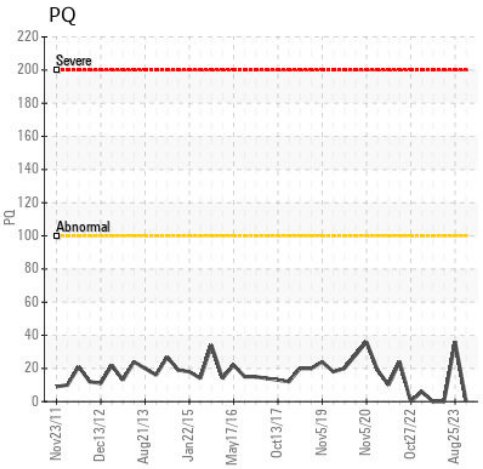
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ **280**	▲ 286	▲ 65.6

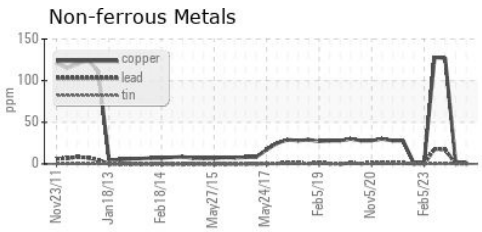
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

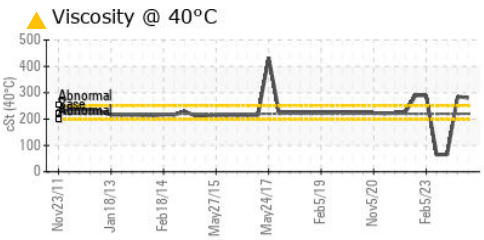


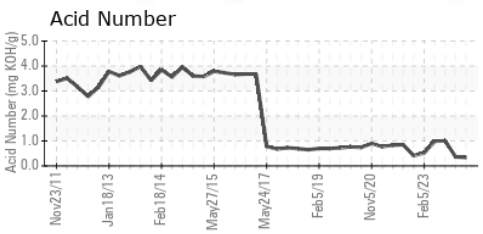
GRAPHS











ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0873604 **Received** : 11 Dec 2023
Lab Number : 02602414 **Diagnosed** : 12 Dec 2023
Unique Number : 5695499 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

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.

Goodyear Napanee
388 Goodyear Road
Napanee, ON
CA K7R 3L2
Contact: Grant Cinnamon
grant_cinnamon@goodyear.com
T:
F: (613)354-9377