



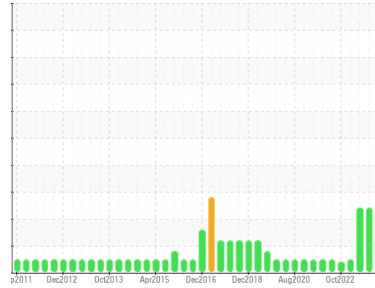
PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY

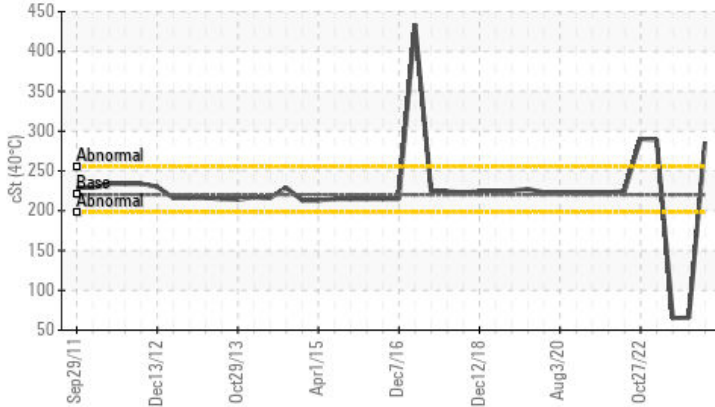


Area
GC01
 Machine Id
GC01 8 Inch Extruder GB
 Component
Gearbox
 Fluid
SHELL OMALA S2 G 220 (180 Kg)



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Molybdenum	ppm	ASTM D5185(m)	0	▲ 109	0	0
Lithium	ppm	ASTM D5185(m)		▲ 42	<1	<1
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 286	▲ 65.6	▲ 65.1

Customer Id: GOONAP
 Sample No.: WC0841276
 Lab Number: 02579803
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Kevin.Marson@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
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RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

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



05 Feb 2023 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. 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.

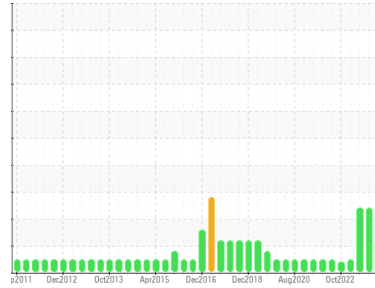
view report





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

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.

Wear

All component wear rates are normal.

Contamination

Lithium (Li) level abnormal at 42ppm., indicates possible grease contamination.

Fluid Condition

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0841276	WC0299468	WC22128049
Sample Date	Client Info		25 Aug 2023	25 Apr 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

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		36	0	0
Iron	ppm	ASTM D5185(m) >200	91	38	37
Chromium	ppm	ASTM D5185(m) >15	2	<1	<1
Nickel	ppm	ASTM D5185(m) >15	<1	2	2
Titanium	ppm	ASTM D5185(m)	0	<1	<1
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >25	1	8	10
Lead	ppm	ASTM D5185(m) >100	<1	18	17
Copper	ppm	ASTM D5185(m) >200	3	128	127
Tin	ppm	ASTM D5185(m) >25	0	<1	<1
Antimony	ppm	ASTM D5185(m) >5	0	<1	0
Vanadium	ppm	ASTM D5185(m)	0	<1	<1
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 4.4	7	1	1
Barium	ppm	ASTM D5185(m) 0.0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0	▲ 109	0	0
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	1	▲ 30	▲ 31
Calcium	ppm	ASTM D5185(m) 0	24	▲ 69	▲ 67
Phosphorus	ppm	ASTM D5185(m) 215	342	▲ 797	▲ 772
Zinc	ppm	ASTM D5185(m) 0	43	▲ 593	▲ 581
Sulfur	ppm	ASTM D5185(m) 7039	7941	▲ 2392	▲ 2287
Lithium	ppm	ASTM D5185(m)	▲ 42	<1	<1

CONTAMINANTS

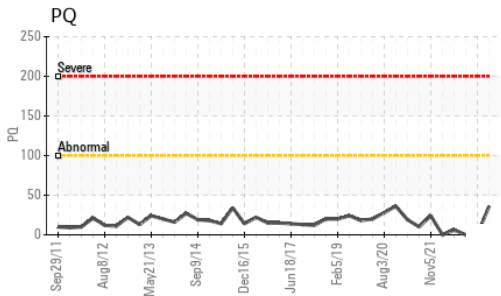
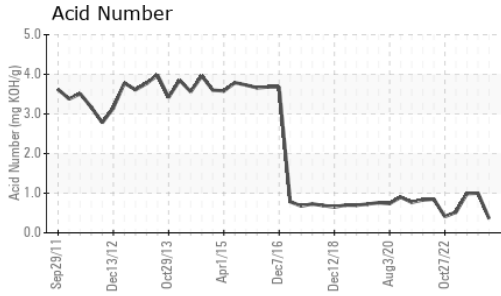
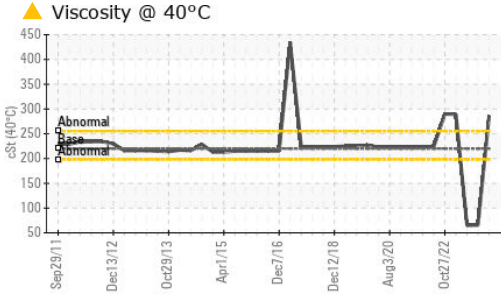
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	9	18	23
Sodium	ppm	ASTM D5185(m)	1	8	6
Potassium	ppm	ASTM D5185(m) >20	11	2	1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.36	1.00	0.99



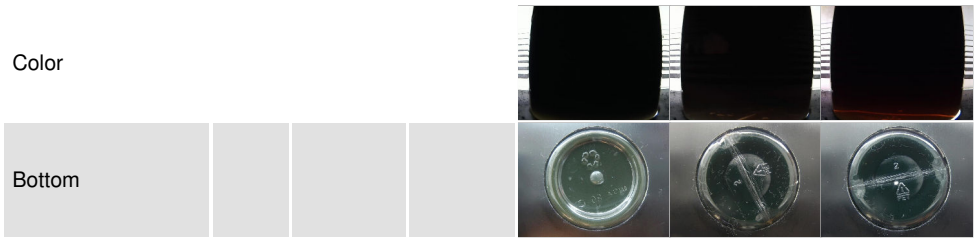
OIL ANALYSIS REPORT



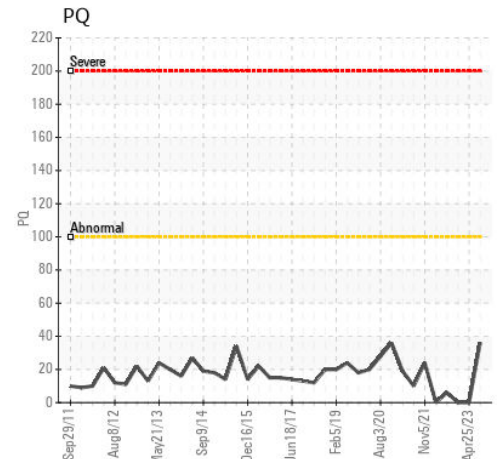
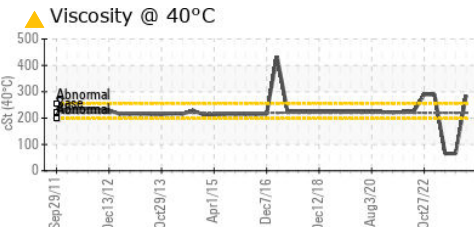
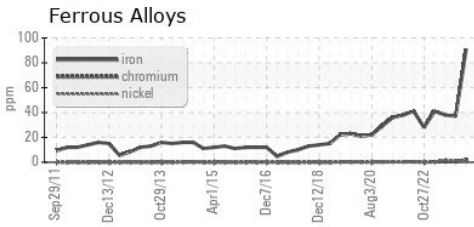
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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 ▲ 286	▲ 65.6	▲ 65.1

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. : WC0841276 **Received** : 31 Aug 2023
Lab Number : 02579803 **Diagnosed** : 01 Sep 2023
Unique Number : 5632863 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

Goodyear Napanee
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 NAPANEE, ON
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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.