

PROBLEM SUMMARY

Sample Rating Trend

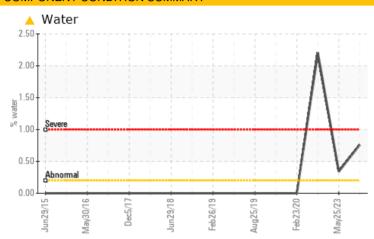
WATER

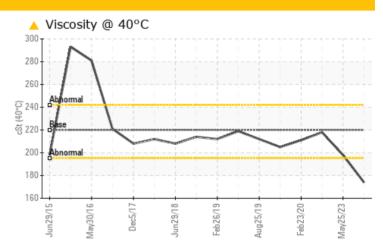
BAC SAW STRAIGHTENER

Component Gearbox

GEAR OIL (PAO) ISO 220 (20 LTR)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	SEVERE
Water	%	ASTM D6304*	>0.2	△ 0.760	△ 0.341	2.203
ppm Water	ppm	ASTM D6304*	>2000	7605.3	▲ 3416.4	22036.6
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	▲ MILKY
Emulsified Water	scalar	Visual*	>0.2	. 5%	<u>.5%</u>	<u>.5%</u>
Free Water	scalar	Visual*		1 %	△ 5%	<u>\$\lambda\$</u> 5%
Visc @ 40°C	cSt	ASTM D7279(m)	220	174	198	218

Customer Id: WEL191WEL Sample No.: WC0851644 Lab Number: 02577606 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 Action **Status** Date Done By Description We recommend that you drain the oil from the component if this has not Change Fluid ? already been done. Resample ? We recommend an early resample to monitor this condition. ? Information Required Please specify the brand, type, and viscosity of the oil on your next sample. The air breather requires service. If unrated, we recommend that you replace with a **Check Breathers** ? suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather

We advise that you check for the source of water entry.

Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

25 May 2023 Diag: Kevin Marson

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Check Water Access

Check Seals

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check for visible metal particles in the oil. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. Gear wear is indicated. There is a moderate concentration of water present in the oil. Free water present. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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08 Jan 2023 Diag: Kevin Marson

WATER



We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.



23 Feb 2020 Diag: Kevin Marson

VISUAL METAL



We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Light concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

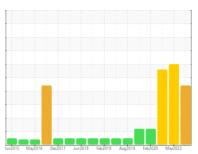
Sample Rating Trend

WATER

BAC SAW STRAIGHTENER

Component

GEAR OIL (PAO) ISO 220 (20 LTR)





DIAGNOSIS

Gearbox

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil. Free water present.

Fluid Condition

Viscosity of sample indicates oil is within ISO 150 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0851644	WC0822509	WC0777249
Sample Date		Client Info		21 Aug 2023	25 May 2023	08 Jan 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	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		66	122	63
Iron	ppm	ASTM D5185(m)	>200	144	148	86
Chromium	ppm	ASTM D5185(m)	>15	4	4	2
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	5	2
Lead	ppm	ASTM D5185(m)	>100	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>200	11	10	11
Tin	ppm	ASTM D5185(m)	>25	<1	1	1
Antimony	ppm	ASTM D5185(m)	>5	0	0	<1
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)	25	4	6	4
Barium	ppm	ASTM D5185(m)	12	2	1	2
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		1	2	<1
Magnesium	ppm	ASTM D5185(m)	25	1	1	<1
Calcium	ppm	ASTM D5185(m)	25	65	47	6
Phosphorus	ppm	ASTM D5185(m)	375	302	355	307
Zinc	ppm	ASTM D5185(m)	25	10	4	12
Sulfur	ppm	ASTM D5185(m)	4900	7840	7950	8194
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	6	10	5
Sodium	ppm	ASTM D5185(m)		1	3	2
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
	0/	ASTM D6304*	>0.2	0.760	△ 0.341	2.203
Water	%	AO TIVI DUOU4	70.L	000	_ 0.0	_ =:=00
	ppm	ASTM D6304*	>2000	▲ 7605.3	▲ 3416.4	22036.6
Water ppm Water FLUID DEGRADA	ppm					

Acid Number (AN)

mg KOH/g ASTM D974* 1.10

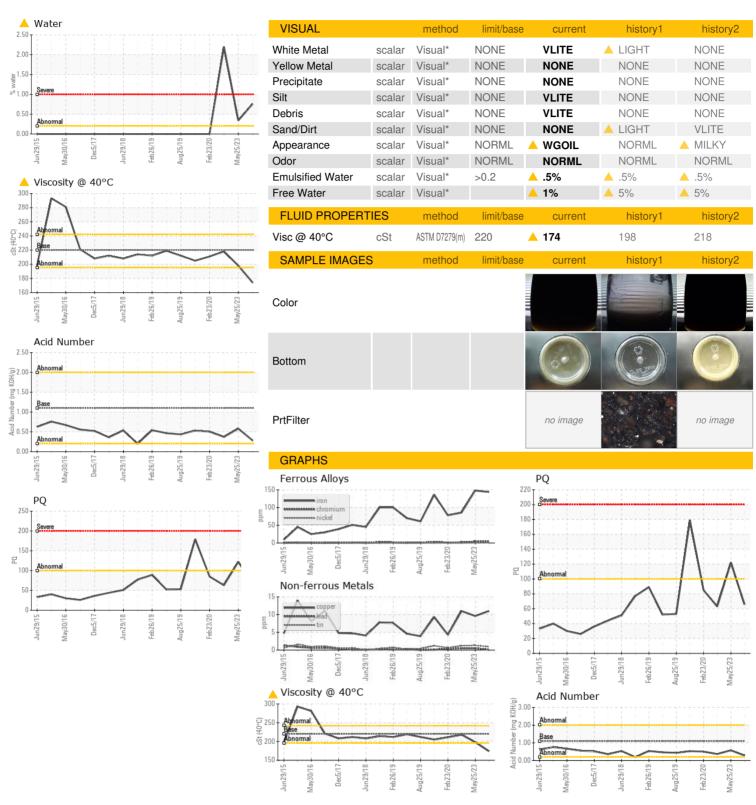
0.58

0.28

0.37



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02577606

: WC0851644 : 5630666

Received : 22 Aug 2023 Diagnosed

: 25 Aug 2023 Diagnostician

: Kevin Marson

Test Package : IND 2 (Additional Tests: KF) 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.

Welded Tube of Canada

191 Ridge Road Welland, ON **CA L3B 5N7** Contact: Steve Holjak sholjak@weldedtube.com

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