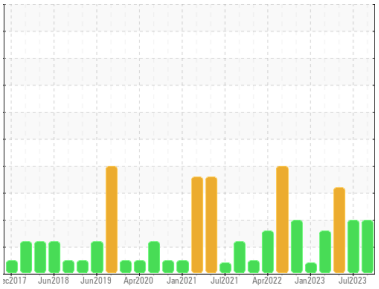
PROBLEM SUMMARY

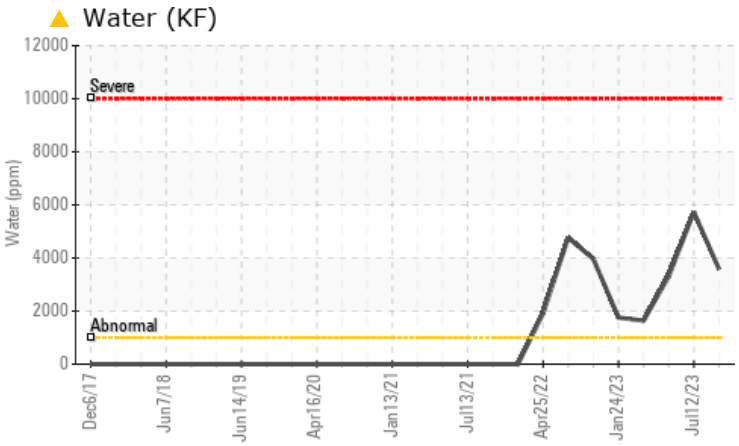
Sample Rating Trend

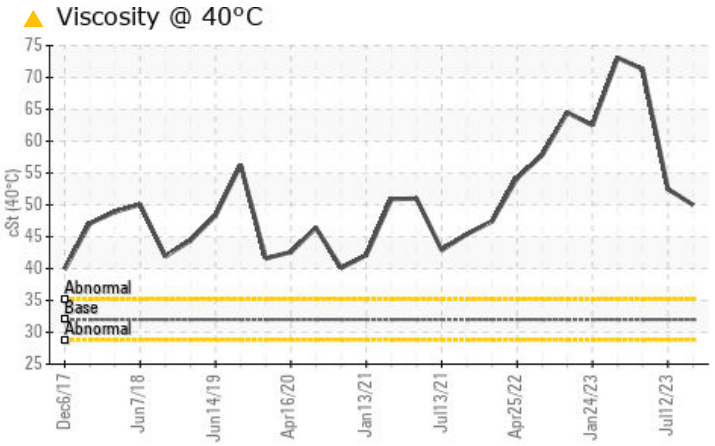


WATER

Area
[22003353]
Machine Id
#182-109 Rotary Wet Screw Air Comp
Component
Screw Compressor
Fluid
SULLAIR SULLUBE 32 (114 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 advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Water	%	ASTM D6304*	>0.1	▲ **0.358**	▲ 0.572	▲ 0.331
ppm Water	ppm	ASTM D6304*	>1000	▲ **3580.1**	▲ 5727.1	▲ 3317.2
Visc @ 40°C	cSt	ASTM D7279(m)	32.0	▲ **50.0**	▲ 52.5	▲ 71.3

Customer Id: FLASTS
Sample No.: WC0840184
Lab Number: 02590293
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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Breathers	---	---	?	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.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.
Filter Fluid	---	---	?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.

HISTORICAL DIAGNOSIS

WATER

12 Jul 2023 Diag: Kevin Marson

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 advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report

WATER

24 Apr 2023 Diag: Kevin Marson

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. The oil is near the end of it`s useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. The AN level is above the recommended limit. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The oil is no longer serviceable.

view report

DEGRADATION

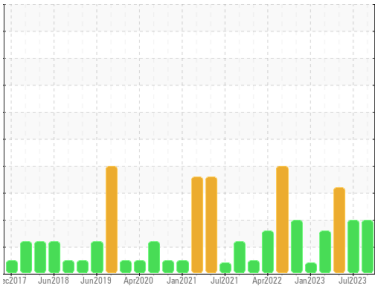
31 Mar 2023 Diag: Kevin Marson

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. The oil is no longer serviceable.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
[22003353]
Machine Id
#182-109 Rotary Wet Screw Air Comp
Component
Screw Compressor
Fluid
SULLAIR SULLUBE 32 (114 LTR)

DIAGNOSIS

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 advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0840184**	WC0813430	WC0782462
Sample Date		Client Info		**10 Oct 2023**	12 Jul 2023	24 Apr 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	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*		**0**	0	0
Iron	ppm	ASTM D5185(m)	>60	**0**	1	<1
Chromium	ppm	ASTM D5185(m)	>4	**0**	0	0
Nickel	ppm	ASTM D5185(m)		**0**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**0**	<1	<1
Lead	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>30	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>15	**0**	<1	0
Antimony	ppm	ASTM D5185(m)		**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

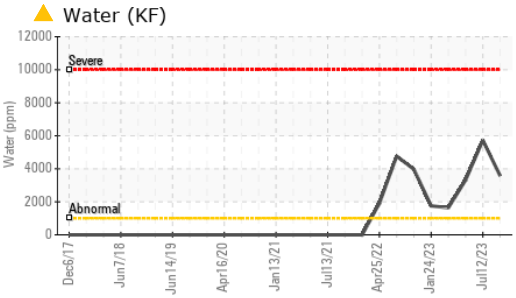
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**3**	6	4
Barium	ppm	ASTM D5185(m)	745	**154**	502	234
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**0**	<1	0
Magnesium	ppm	ASTM D5185(m)		**0**	1	0
Calcium	ppm	ASTM D5185(m)	1	**2**	8	0
Phosphorus	ppm	ASTM D5185(m)	3	**1**	1	0
Zinc	ppm	ASTM D5185(m)		**3**	99	3
Sulfur	ppm	ASTM D5185(m)		**278**	284	383
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**4**	5	7
Sodium	ppm	ASTM D5185(m)		**80**	84	68
Potassium	ppm	ASTM D5185(m)	>20	**9**	11	12
Water	%	ASTM D6304*	>0.1	▲ **0.358**	▲ 0.572	▲ 0.331
ppm Water	ppm	ASTM D6304*	>1000	▲ **3580.1**	▲ 5727.1	▲ 3317.2

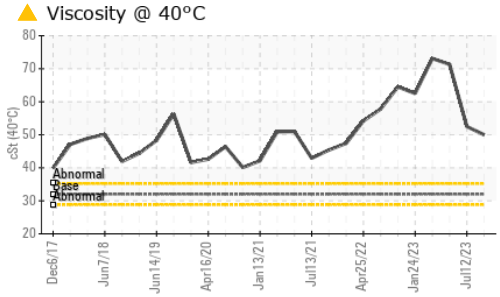
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**2.77**	2.02	▲ 6.31

OIL ANALYSIS REPORT

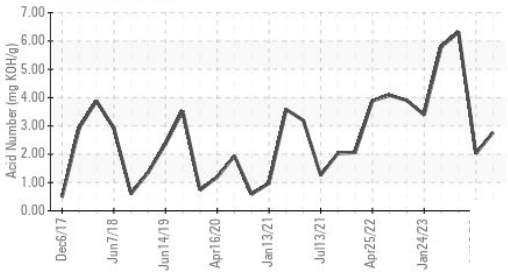
Water (KF)



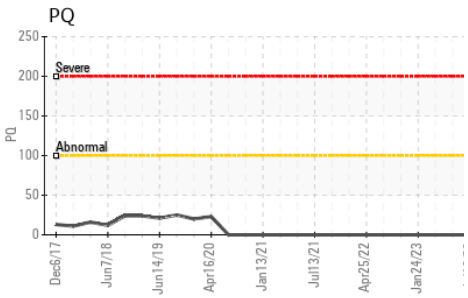
Viscosity @ 40°C



Acid Number



PQ



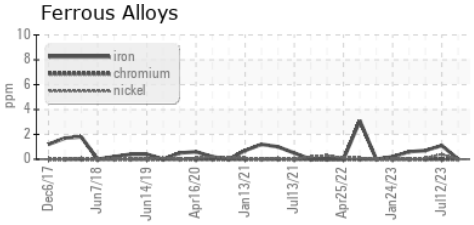
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**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)	32.0	▲ **50.0**	▲ 52.5	▲ 71.3

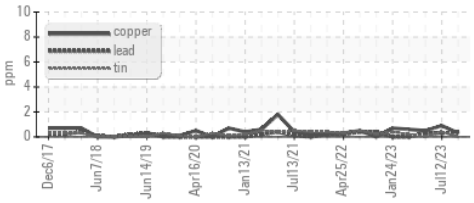
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

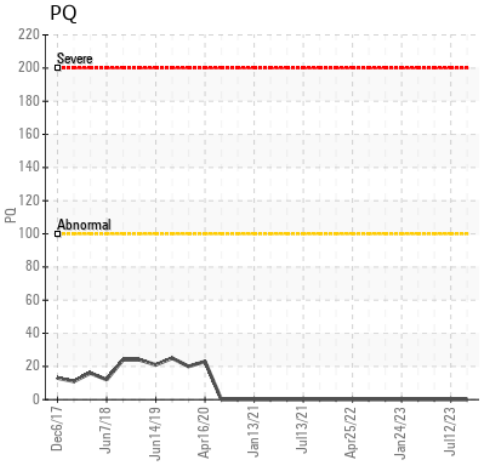
Ferrous Alloys



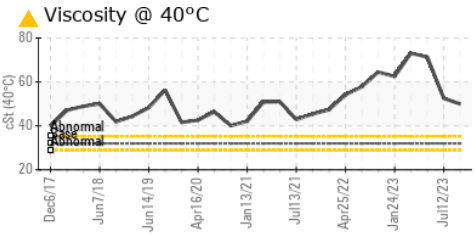
Non-ferrous Metals



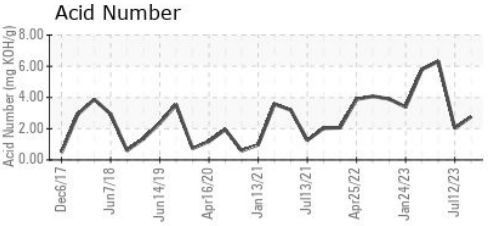
PQ



Viscosity @ 40°C



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0840184 **Received** : 19 Oct 2023
Lab Number : 02590293 **Diagnosed** : 20 Oct 2023
Unique Number : 5659359 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: KF, 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.

ARAUCO - St. Stephen
151 Church Street
St. Stephen, NB
CA E3L 3A6
Contact: Jim Sears
Jim.Sears@arauco.com
T: (506)465-2858
F: (506)465-2831