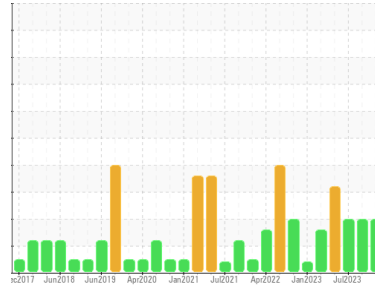




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
[22092858]

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		WC0749138	WC0840184	WC0813430
Sample Date	Client Info		11 Jan 2024	10 Oct 2023	12 Jul 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	<1	0	1
Chromium	ppm	ASTM D5185(m) >4	0	0	0
Nickel	ppm	ASTM D5185(m)	<1	0	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	<1	0
Aluminum	ppm	ASTM D5185(m) >5	<1	0	<1
Lead	ppm	ASTM D5185(m) >10	0	<1	<1
Copper	ppm	ASTM D5185(m) >30	<1	<1	<1
Tin	ppm	ASTM D5185(m) >15	0	0	<1
Antimony	ppm	ASTM D5185(m)	0	0	0
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)	4	3	6
Barium	ppm	ASTM D5185(m) 745	200	154	502
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m)	<1	0	1
Calcium	ppm	ASTM D5185(m) 1	2	2	8
Phosphorus	ppm	ASTM D5185(m) 3	<1	1	1
Zinc	ppm	ASTM D5185(m)	4	3	99
Sulfur	ppm	ASTM D5185(m)	348	278	284
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

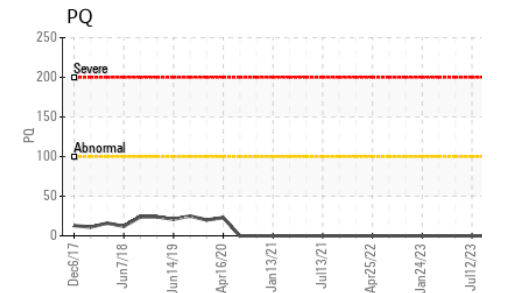
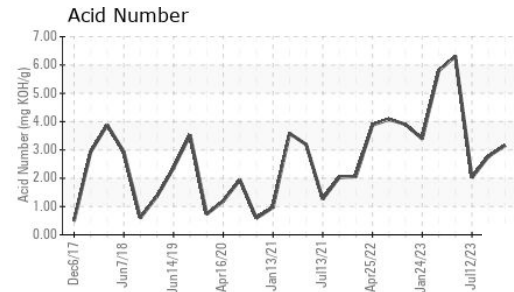
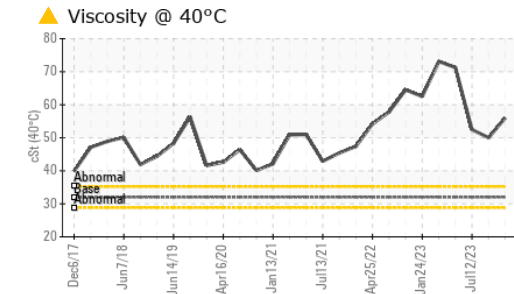
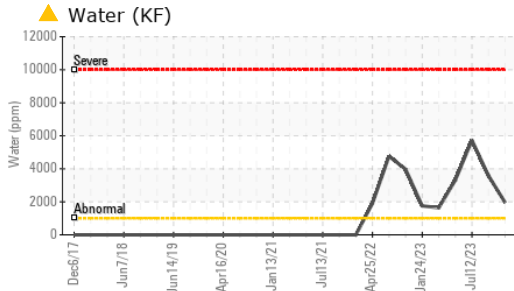
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	6	4	5
Sodium	ppm	ASTM D5185(m)	87	80	84
Potassium	ppm	ASTM D5185(m) >20	12	9	11
Water	%	ASTM D6304* >0.1	▲ 0.195	▲ 0.358	▲ 0.572
ppm Water	ppm	ASTM D6304* >1000	▲ 1954	▲ 3580.1	▲ 5727.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	3.16	2.77	2.02



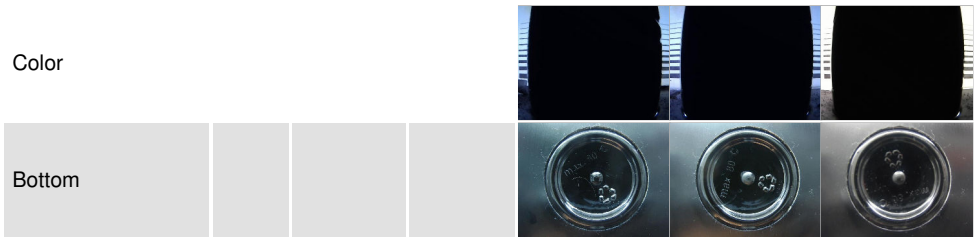
OIL ANALYSIS REPORT



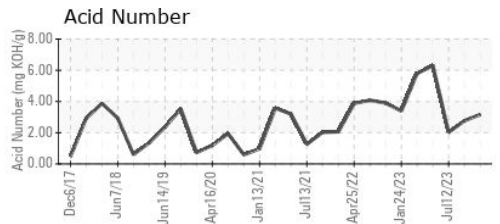
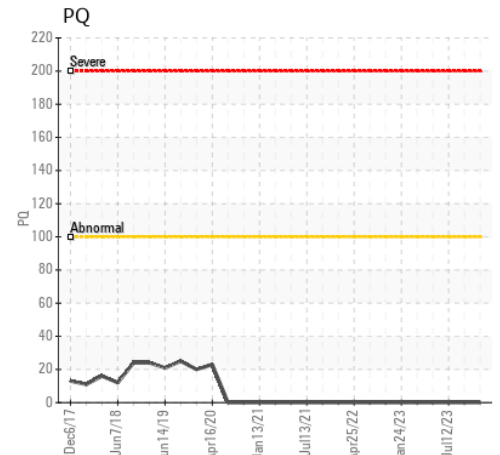
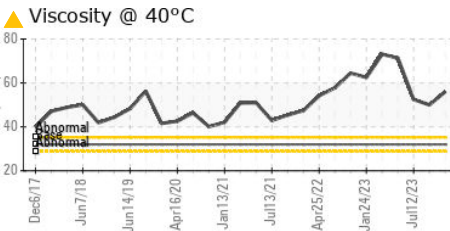
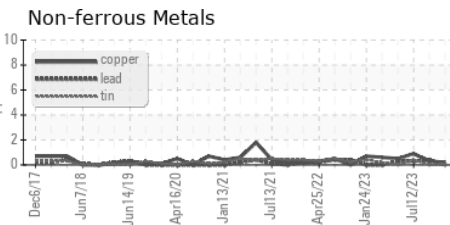
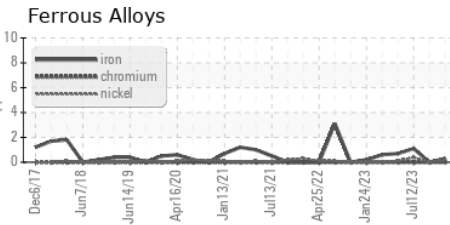
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32.0 ▲ 56.0	▲ 50.0	▲ 52.5

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. : WC0749138 Received : 23 Jan 2024
 Lab Number : 02610620 Diagnosed : 29 Jan 2024
 Unique Number : 5711706 Diagnostician : Bill Quesnel
 Test Package : IND 2 (Additional Tests: KF, TAN Man)

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

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.