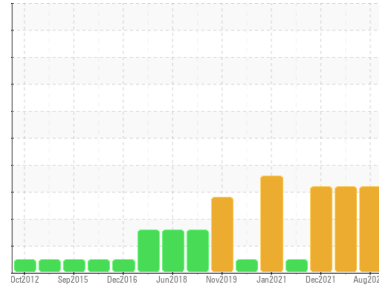




PROBLEM SUMMARY

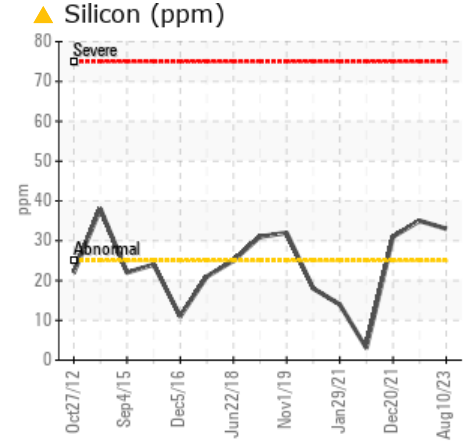
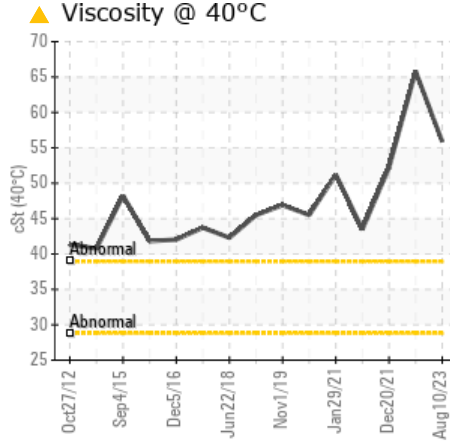
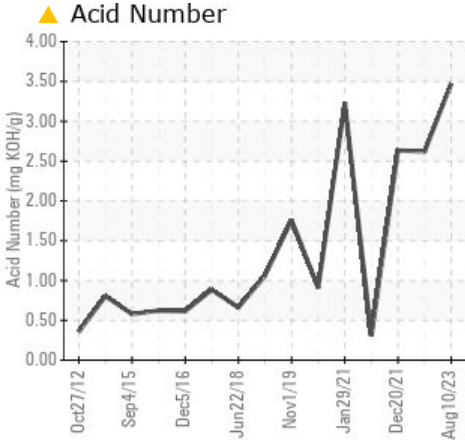
Sample Rating Trend



Machine Id
SULLAIR 003-135175 - LO PAREX

Component
Compressor
Fluid
PG 32 (25 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for a possible overhear condition. 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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>25	▲ 33	▲ 35	▲ 31
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 3.47	▲ 2.62	▲ 2.634
Visc @ 40°C	cSt	ASTM D445		▲ 55.9	▲ 65.8	▲ 52.2

Customer Id: AIRGREWC
Sample No.: WC0831398
Lab Number: 05928389
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

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 For Overheating	---	---	?	We advise that you check for a possible overheat condition.

HISTORICAL DIAGNOSIS

19 Jan 2023 Diag: Jonathan Hester

DIRT



We advise that you check for a possible overheat condition. 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. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

view report



20 Dec 2021 Diag: Angela Borella

DIRT



We advise that you check for a possible overheat condition. 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. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

view report



15 Feb 2021 Diag: Jonathan Hester

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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

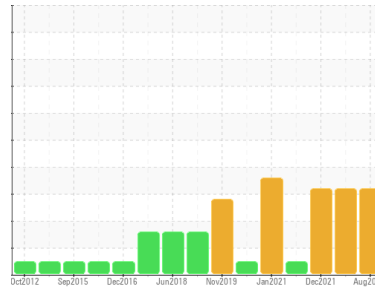
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
SULLAIR 003-135175 - LO PAREX

Component
Compressor
Fluid
PG 32 (25 GAL)

DIAGNOSIS

Recommendation

We advise that you check for a possible overheat condition. 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.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0831398	WC0771122	WC0628142
Sample Date	Client Info		10 Aug 2023	19 Jan 2023	20 Dec 2021
Machine Age	hrs	Client Info	47454	43253	33797
Oil Age	hrs	Client Info	11306	7185	7387
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	8	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	0	2
Lead	ppm	ASTM D5185m	>25	2	<1	<1
Copper	ppm	ASTM D5185m	>50	2	2	1
Tin	ppm	ASTM D5185m	>15	4	8	2
Antimony	ppm	ASTM D5185m		---	---	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		4	2	3
Barium	ppm	ASTM D5185m		71	15	15
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		6	<1	<1
Calcium	ppm	ASTM D5185m		9	<1	<1
Phosphorus	ppm	ASTM D5185m		13	2	10
Zinc	ppm	ASTM D5185m		39	2	0
Sulfur	ppm	ASTM D5185m		657	614	110

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	▲ 33	▲ 35	▲ 31
Sodium	ppm	ASTM D5185m		127	138	100
Potassium	ppm	ASTM D5185m	>20	4	3	3

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 3.47	▲ 2.62	▲ 2.634

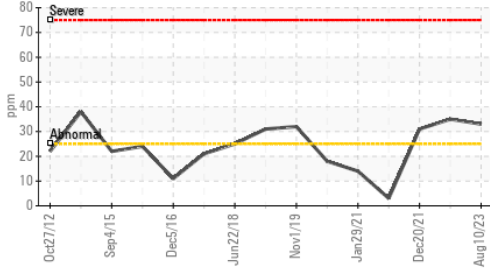
VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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

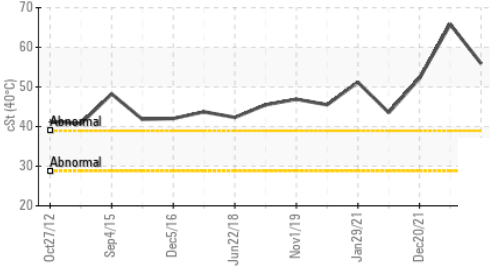


OIL ANALYSIS REPORT

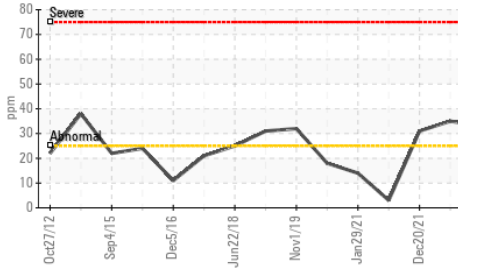
▲ Silicon (ppm)



▲ Viscosity @ 40°C



▲ Silicon (ppm)



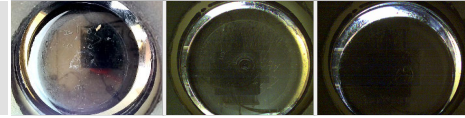
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ 55.9	▲ 65.8	▲ 52.2

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color

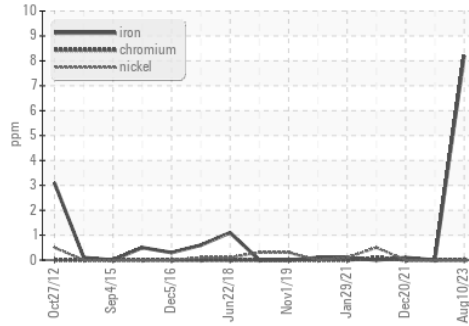


Bottom

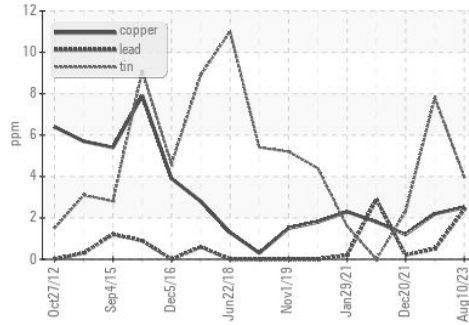


GRAPHS

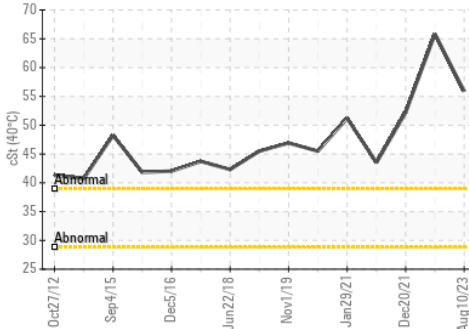
Ferrous Alloys



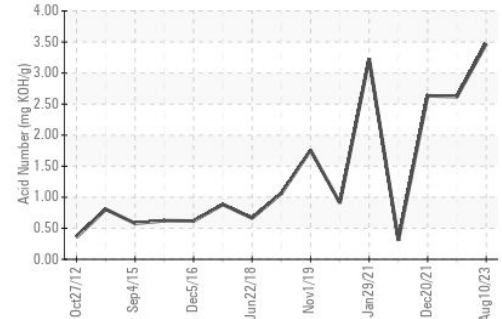
Non-ferrous Metals



▲ Viscosity @ 40°C



▲ Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0831398 **Received** : 18 Aug 2023
Lab Number : 05928389 **Diagnosed** : 21 Aug 2023
Unique Number : 10608336 **Diagnostician** : Don Baldrige
Test Package : IND 2

FS-COMPRESSION CO, LLC
 203 AERO COURT
 GREENSBORO, NC
 US 27409

Contact: Dallas Burcham
 dallas.burcham@fs-compression.com
 T: (336)605-9622
 F: (336)605-9844

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)