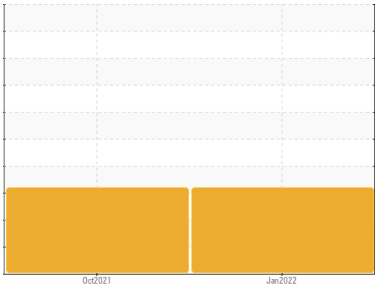
PROBLEM SUMMARY

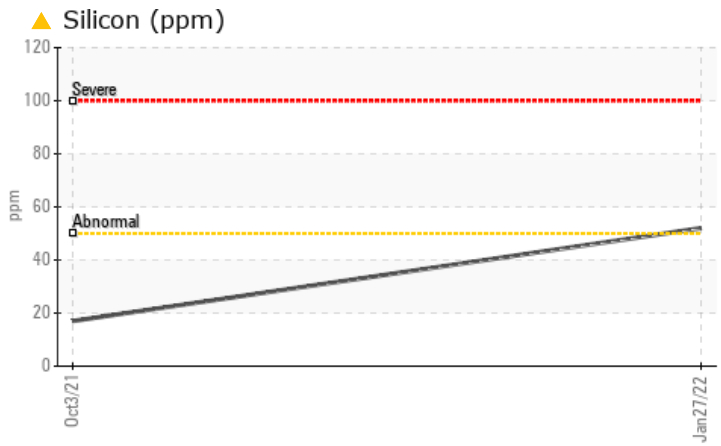
Sample Rating Trend



WATER

Machine Id
FRICK FRICK A
Component
Screw Compressor
Fluid
ISO 100 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Silicon	ppm	ASTM D5185m	>50	▲ **52**	17	---
Water	%	ASTM D6304	>0.1	▲ **0.380**	▲ 0.268	---
ppm Water	ppm	ASTM D6304	>1000	▲ **3807.0**	▲ 2681.6	---

Customer Id: GARROW
Sample No.: TO50000455
Lab Number: 05535257
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	MISSED	May 23 2022	?	We advise that you follow the water drain-off procedure for this component.

HISTORICAL DIAGNOSIS

03 Oct 2021 Diag: Doug Bogart

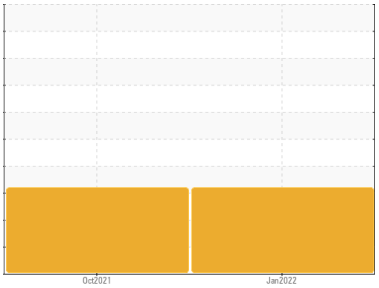
WATER

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a light concentration of water present 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



WATER

Machine Id
FRICK FRICK A
Component
Screw Compressor
Fluid
ISO 100 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a light concentration of water present in the oil. Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO50000455**	TO50000451	---
Sample Date		Client Info		**27 Jan 2022**	03 Oct 2021	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	**0**	<1	---
Chromium	ppm	ASTM D5185m	>4	**0**	0	---
Nickel	ppm	ASTM D5185m		**<1**	<1	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	1	---
Aluminum	ppm	ASTM D5185m	>5	**0**	<1	---
Lead	ppm	ASTM D5185m	>10	**0**	<1	---
Copper	ppm	ASTM D5185m	>30	**0**	<1	---
Tin	ppm	ASTM D5185m	>15	**<1**	<1	---
Antimony	ppm	ASTM D5185m		**---**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	1	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m		**0**	<1	---
Calcium	ppm	ASTM D5185m		**0**	5	---
Phosphorus	ppm	ASTM D5185m		**7**	9	---
Zinc	ppm	ASTM D5185m		**0**	1	---
Sulfur	ppm	ASTM D5185m		**2026**	326	---

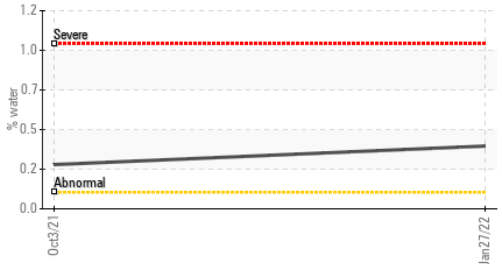
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **52**	17	---
Sodium	ppm	ASTM D5185m		**0**	1	---
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	---
Water	%	ASTM D6304	>0.1	▲ **0.380**	▲ 0.268	---
ppm Water	ppm	ASTM D6304	>1000	▲ **3807.0**	▲ 2681.6	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**3288**	▲ 50068	---
Particles >6µm		ASTM D7647	>2500	**791**	▲ 7959	---
Particles >14µm		ASTM D7647	>320	**90**	▲ 443	---
Particles >21µm		ASTM D7647	>80	**33**	▲ 109	---
Particles >38µm		ASTM D7647	>20	**1**	2	---
Particles >71µm		ASTM D7647	>4	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**19/17/14**	▲ 23/20/16	---

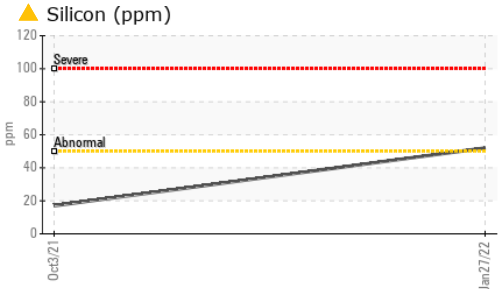
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.277**	0.471	---

OIL ANALYSIS REPORT

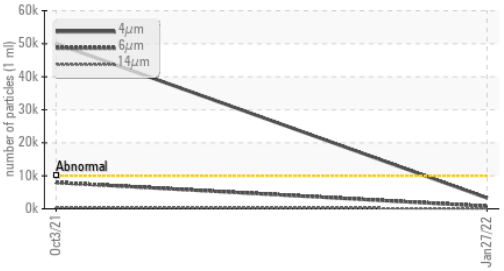
Water



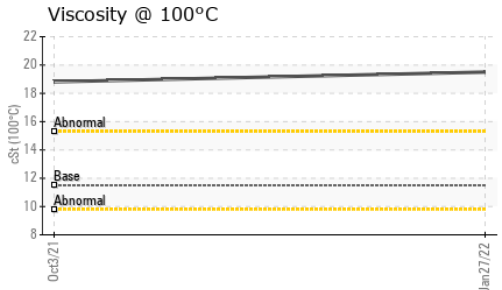
Silicon (ppm)



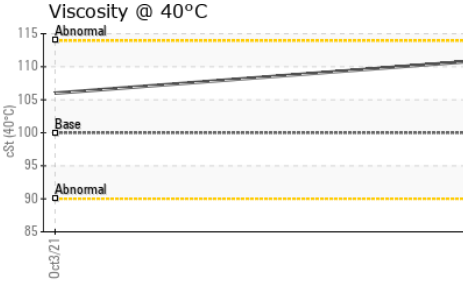
Particle Trend



Viscosity @ 100°C

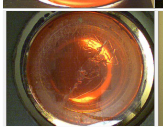


Viscosity @ 40°C



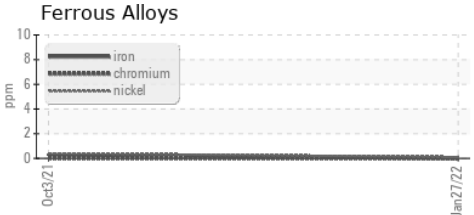
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt	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 D445	100	**111**	106	---
Visc @ 100°C	cSt	ASTM D445	11.5	**19.5**	18.81	---
Viscosity Index (VI)	Scale	ASTM D2270	102	**198**	198	---

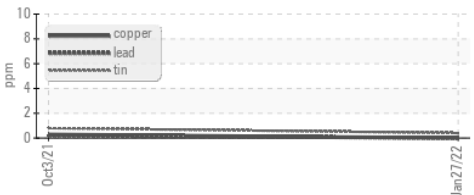
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

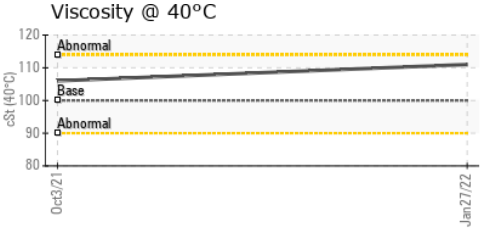
Ferrous Alloys



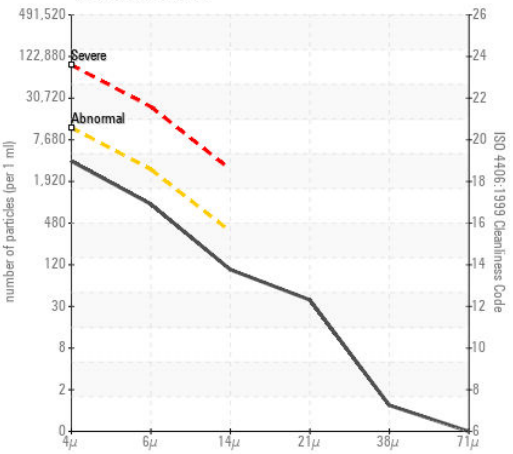
Non-ferrous Metals



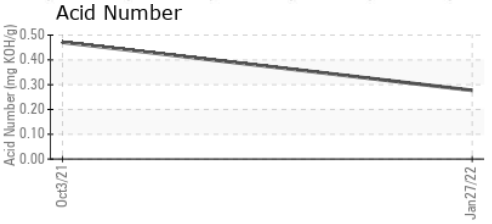
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50000455 **Received** : 03 May 2022
Lab Number : 05535257 **Diagnosed** : 05 May 2022
Unique Number : 9959546 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Certificate L2367

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)

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