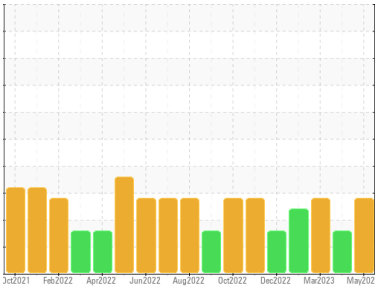
PROBLEM SUMMARY

Sample Rating Trend

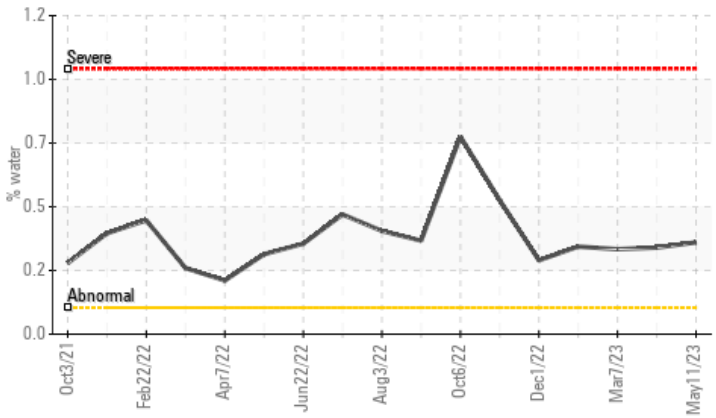


WATER

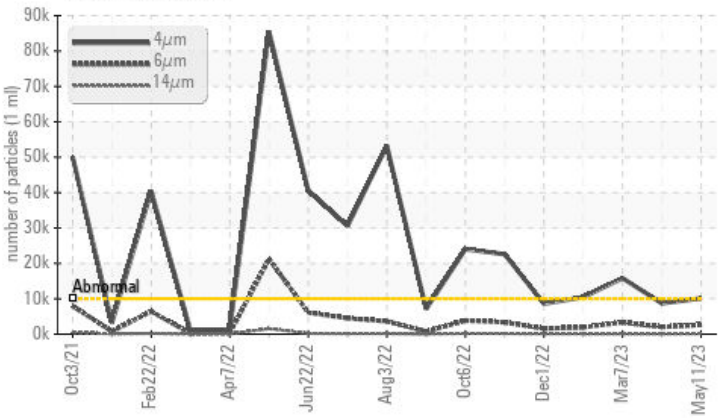
Machine Id
FRICK FRICK A
Component
Screw Compressor
Fluid
COMPRESSOR OIL ISO 100 (--- GAL)

COMPONENT CONDITION SUMMARY

Water



Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.1	▲ **0.346**	▲ 0.326	▲ 0.320
ppm Water	ppm	ASTM D6304	>1000	▲ **3464.1**	▲ 3267.4	▲ 3203.0
Particles >4µm		ASTM D7647	>10000	▲ **10117**	8711	▲ 15823
Particles >6µm		ASTM D7647	>2500	▲ **2618**	2043	▲ 3317
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **21/19/14**	20/18/14	▲ 21/19/14

Customer Id: GARROW
Sample No.: TO60000861
Lab Number: 05868689
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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 Filter	MISSED	Jun 28 2023	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

24 Apr 2023 Diag: Don Baldridge

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 light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

---

07 Mar 2023 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 moderate amount of silt (particulates < 14 microns in size) 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

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07 Feb 2023 Diag: Doug Bogart

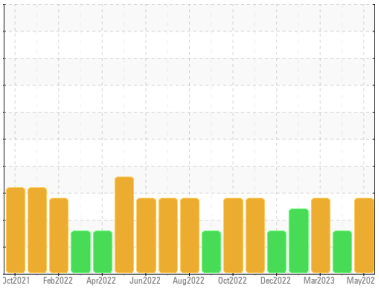
WATER

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 moderate amount of silt (particulates < 6 microns in size) 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
COMPRESSOR OIL ISO 100 (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

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		**TO60000861**	TO60000856	TO70000057
Sample Date		Client Info		**11 May 2023**	24 Apr 2023	07 Mar 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	ABNORMAL

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	0
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	5	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	5	**<1**	<1	2
Calcium	ppm	ASTM D5185m	5	**<1**	1	0
Phosphorus	ppm	ASTM D5185m	150	**20**	22	27
Zinc	ppm	ASTM D5185m	5	**0**	<1	0
Sulfur	ppm	ASTM D5185m	5000	**3066**	3188	3098

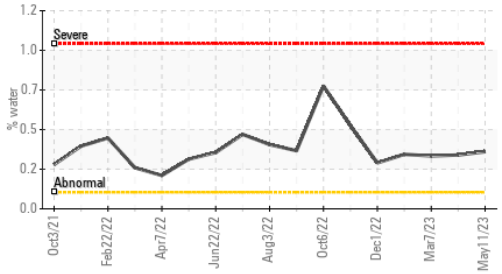
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**32**	30	39
Sodium	ppm	ASTM D5185m		**2**	<1	0
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Water	%	ASTM D6304	>0.1	▲ **0.346**	▲ 0.326	▲ 0.320
ppm Water	ppm	ASTM D6304	>1000	▲ **3464.1**	▲ 3267.4	▲ 3203.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **10117**	8711	▲ 15823
Particles >6µm		ASTM D7647	>2500	▲ **2618**	2043	▲ 3317
Particles >14µm		ASTM D7647	>320	**150**	104	115
Particles >21µm		ASTM D7647	>80	**30**	24	9
Particles >38µm		ASTM D7647	>20	**1**	1	1
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **21/19/14**	20/18/14	▲ 21/19/14

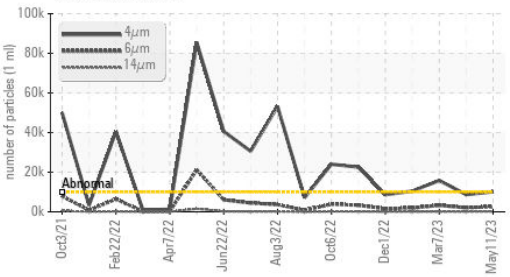
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.51	**0.298**	0.58	0.384

OIL ANALYSIS REPORT

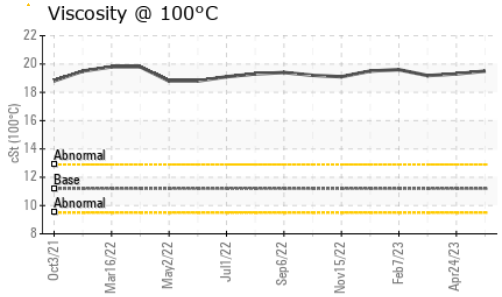
Water



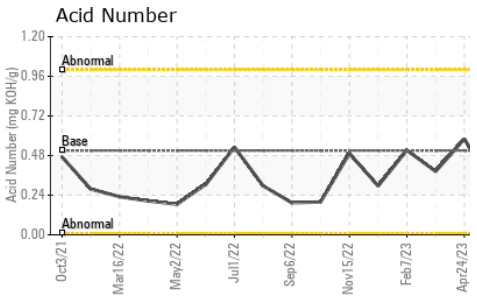
Particle Trend



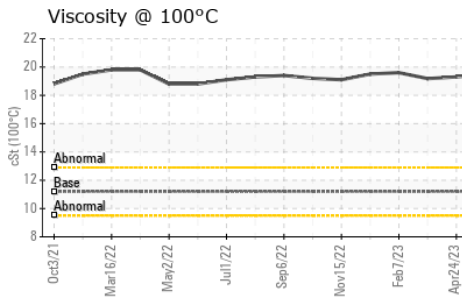
Viscosity @ 100°C



Acid Number

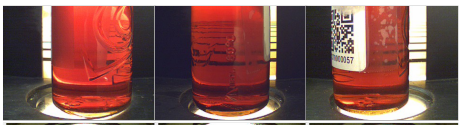
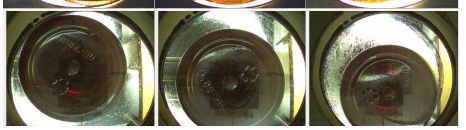


Viscosity @ 100°C



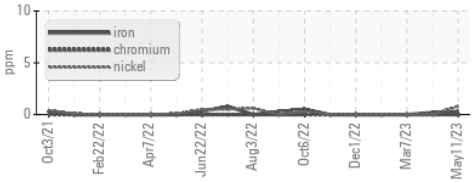
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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 D445	100	**113**	113	112
Visc @ 100°C	cSt	ASTM D445	11.2	**19.5**	19.3	19.18
Viscosity Index (VI)	Scale	ASTM D2270	97	**195**	193	193

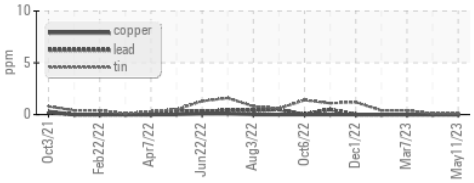
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

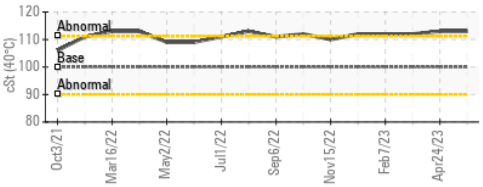
Ferrous Alloys



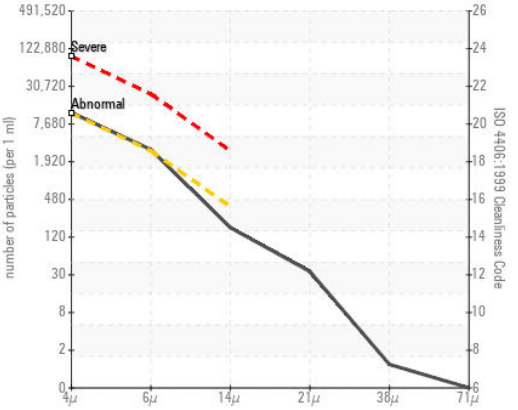
Non-ferrous Metals



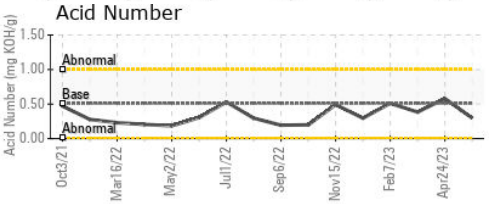
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60000861 **Received** : 08 Jun 2023
Lab Number : 05868689 **Diagnosed** : 12 Jun 2023
Unique Number : 10508473 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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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