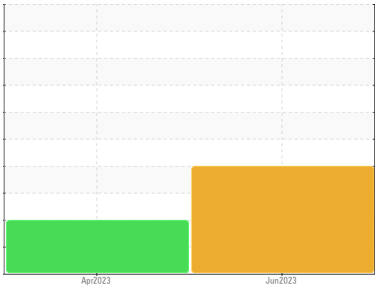
PROBLEM SUMMARY

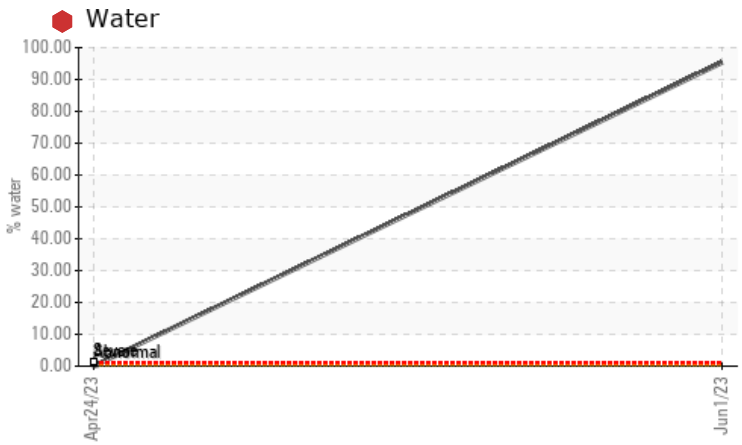
Sample Rating Trend



WATER

Area
Boiler
Machine Id
Air compressor 3 (S/N 90808J)
Component
Air Compressor
Fluid
SUMMIT FG-200 ISO 46 (52 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: Collected by cs)

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	ABNORMAL	---
Water	%	ASTM D6304	>0.6	**95.3**	0.007	---
ppm Water	ppm	ASTM D6304	>6000	**953000**	78.8	---
Silt	scalar	*Visual	NONE	**HEAVY**	NONE	---

Customer Id: DARDALTX
Sample No.: TO50001770
Lab Number: 05865623
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
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

24 Apr 2023 Diag: Jonathan Hester

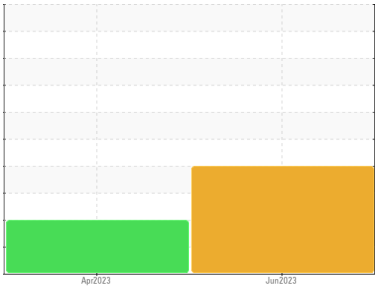
VISCOSITY

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
Boiler
Machine Id
Air compressor 3 (S/N 90808J)
Component
Air Compressor
Fluid
SUMMIT FG-200 ISO 46 (52 GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: Collected by cs)

Wear

All component wear rates are normal.

Contamination

There is a high concentration of water present in the oil. There is a high amount of visible silt present in the sample.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO50001770**	TO50001579	---
Sample Date		Client Info		**01 Jun 2023**	24 Apr 2023	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**SEVERE**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**4**	34	---
Chromium	ppm	ASTM D5185m	>4	**0**	0	---
Nickel	ppm	ASTM D5185m	>4	**<1**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>10	**<1**	0	---
Lead	ppm	ASTM D5185m	>20	**0**	12	---
Copper	ppm	ASTM D5185m	>40	**2**	7	---
Tin	ppm	ASTM D5185m	>5	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	---
Barium	ppm	ASTM D5185m		**2**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	3	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**4**	<1	---
Calcium	ppm	ASTM D5185m		**5**	36	---
Phosphorus	ppm	ASTM D5185m		**13**	269	---
Zinc	ppm	ASTM D5185m		**22**	66	---
Sulfur	ppm	ASTM D5185m		**16**	1081	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	19	---
Sodium	ppm	ASTM D5185m		**0**	0	---
Potassium	ppm	ASTM D5185m	>20	**1**	<1	---
Water	%	ASTM D6304	>0.6	**95.3**	0.007	---
ppm Water	ppm	ASTM D6304	>6000	**953000**	78.8	---

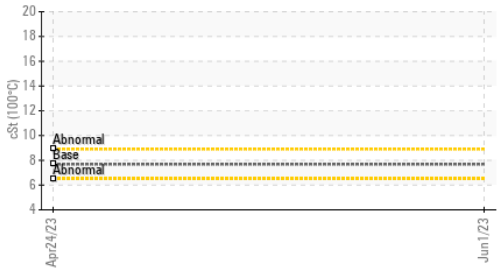
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**---**	155185	---
Particles >6µm		ASTM D7647	>2500	**---**	12821	---
Particles >14µm		ASTM D7647	>320	**---**	292	---
Particles >21µm		ASTM D7647	>80	**---**	65	---
Particles >38µm		ASTM D7647	>20	**---**	6	---
Particles >71µm		ASTM D7647	>4	**---**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**---**	24/21/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.59**	1.38	---

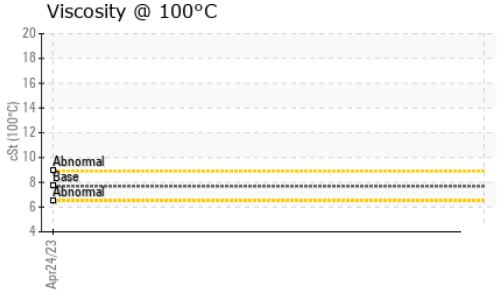
OIL ANALYSIS REPORT

Water

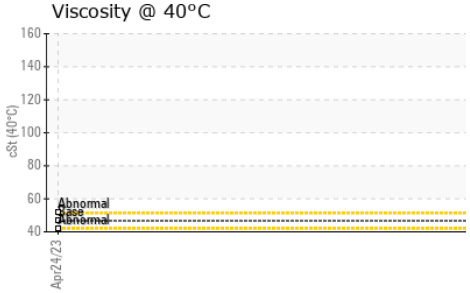
Viscosity @ 100°C



Viscosity @ 100°C

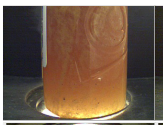
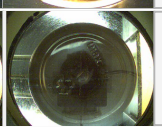


Viscosity @ 40°C



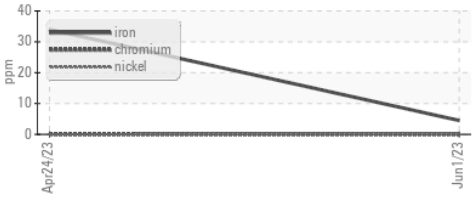
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	▲ **HEAVY**	NONE	---
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.6	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.7	---	▲ 144	---
Visc @ 100°C	cSt	ASTM D445	7.68	---	▲ 18.9	---
Viscosity Index (VI)	Scale	ASTM D2270	132	---	148	---

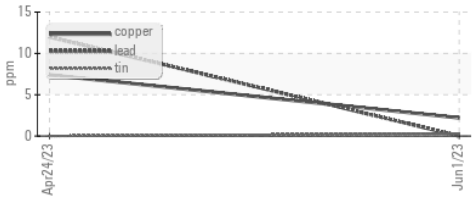
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

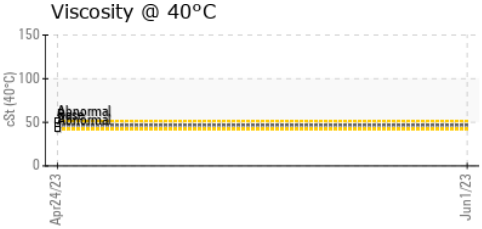
Ferrous Alloys



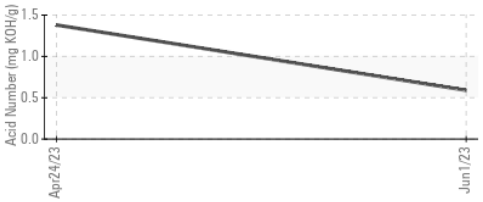
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001770 **Received** : 06 Jun 2023
Lab Number : 05865623 **Diagnosed** : 08 Jun 2023
Unique Number : 10500088 **Diagnostician** : Jonathan Hester
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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