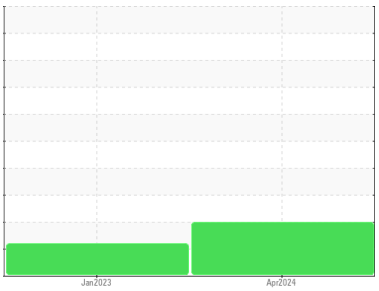
STAUFF FILTRATION TECHNOLOGY

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
GOODYEAR AKRON TEST 34
Component
Hydraulic System
Fluid
CONOCO MEGAFLOW AW 46 (--- GAL)

DIAGNOSIS

Recommendation
We recommend an early resample to monitor this condition. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

Wear
The iron level is abnormal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**ST46165**	ST44351	---
Sample Date		Client Info		**21 Apr 2024**	02 Jan 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				**ABNORMAL**	ATTENTION	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **47**	1	---
Chromium	ppm	ASTM D5185m	>20	**<1**	0	---
Nickel	ppm	ASTM D5185m	>20	**<1**	0	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**2**	0	---
Lead	ppm	ASTM D5185m	>20	**<1**	0	---
Copper	ppm	ASTM D5185m	>20	**15**	16	---
Tin	ppm	ASTM D5185m	>20	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**<1**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	---
Barium	ppm	ASTM D5185m		**<1**	0	---
Molybdenum	ppm	ASTM D5185m		**<1**	0	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m		**<1**	0	---
Calcium	ppm	ASTM D5185m		**15**	9	---
Phosphorus	ppm	ASTM D5185m		**348**	285	---
Zinc	ppm	ASTM D5185m		**311**	241	---
Sulfur	ppm	ASTM D5185m		**844**	805	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**4**	<1	---
Sodium	ppm	ASTM D5185m		**1**	1	---
Potassium	ppm	ASTM D5185m	>20	**1**	0	---
Water	%	ASTM D6304	>0.05	**0.00**	0.006	---
ppm Water	ppm	ASTM D6304	>500	**0**	63.2	---

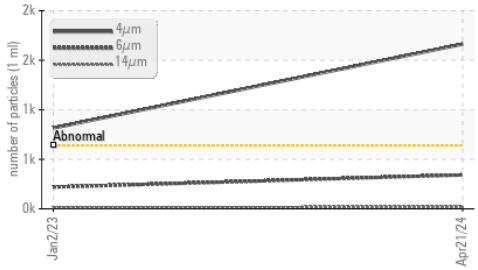
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	▲ **1663**	● 815	---
Particles >6µm		ASTM D7647	>160	▲ **342**	● 219	---
Particles >14µm		ASTM D7647	>20	**20**	14	---
Particles >21µm		ASTM D7647	>4	**5**	3	---
Particles >38µm		ASTM D7647	>3	**0**	0	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>16/14/11	▲ **18/16/11**	● 17/15/11	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	**0.31**	0.27	---

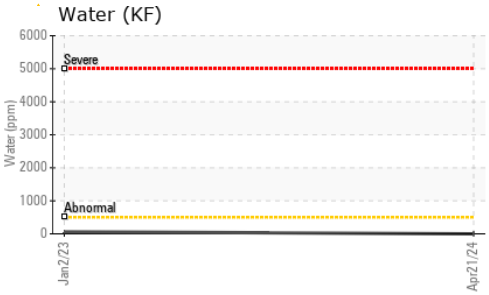
STAUFF FILTRATION TECHNOLOGY

OIL ANALYSIS REPORT

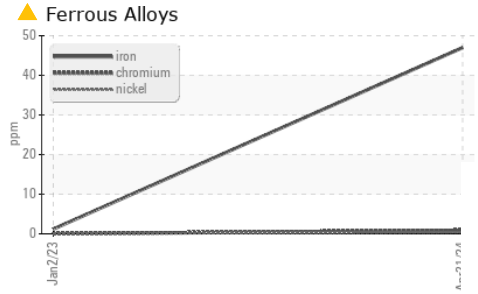
Particle Trend



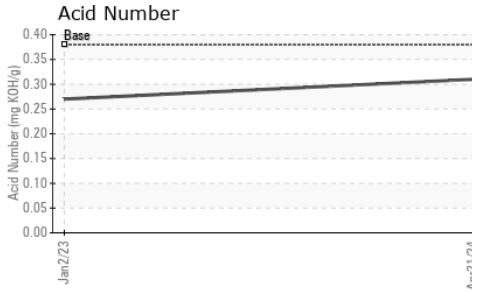
Water (KF)



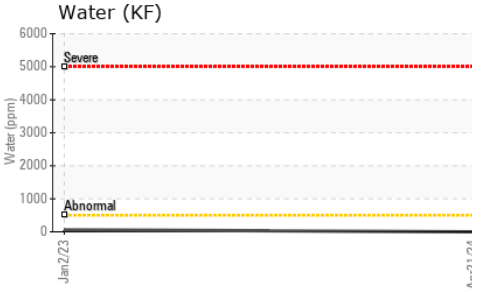
Ferrous Alloys



Acid Number

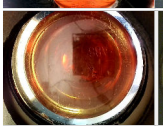
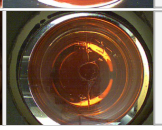


Water (KF)



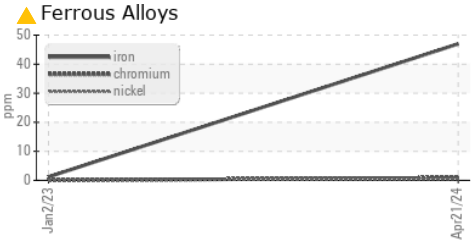
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**45.0**	44.5	---

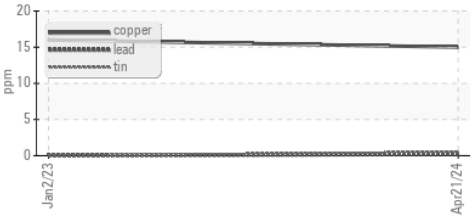
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

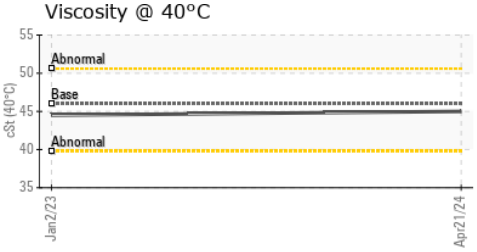
Ferrous Alloys



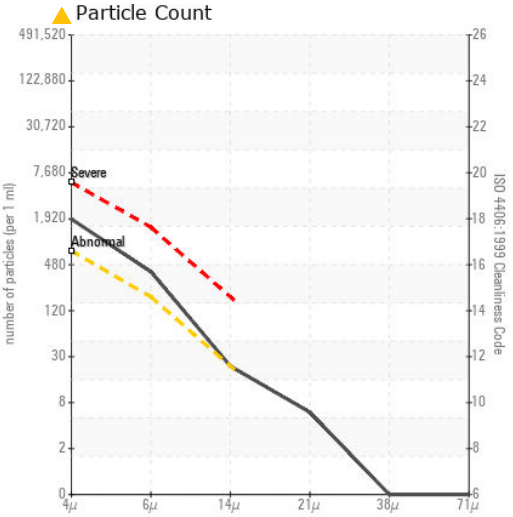
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST46165
Lab Number : 06156005
Unique Number : 10991428
Test Package : IND 2 (Additional Tests: KF)

Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Jonathan Hester

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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