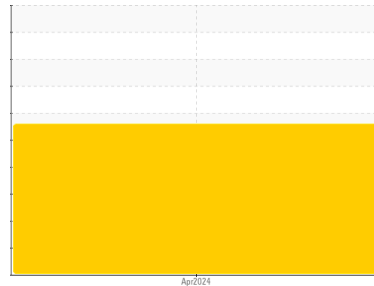


PROBLEM SUMMARY

Sample Rating Trend

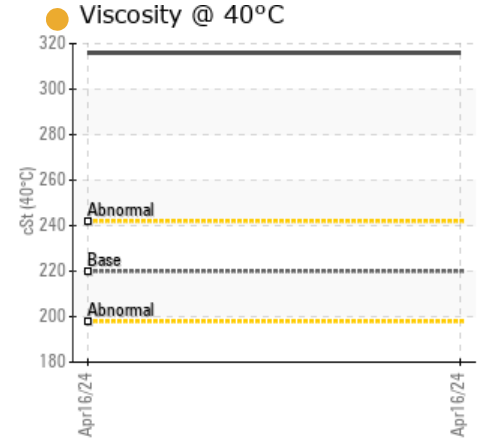
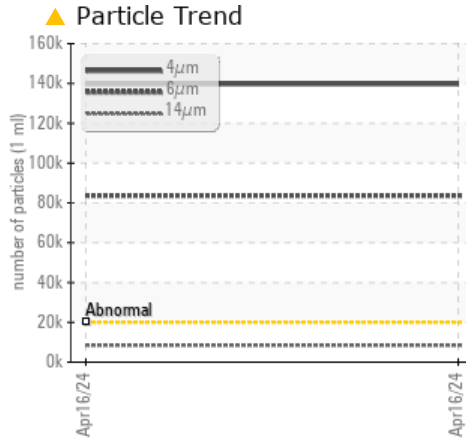
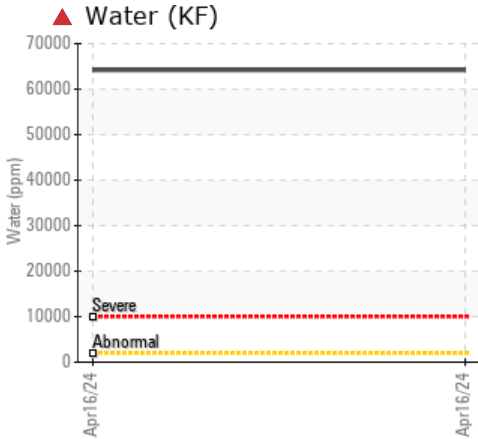


WATER



Machine Id
WINDLESS IRON BLONDE
Component
Port Gearbox
Fluid
GEAR OIL ISO 220 (1 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. 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.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304	>0.2	▲ 6.421	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 64214	---	---
Particles >4µm		ASTM D7647	>20000	▲ 139710	---	---
Particles >6µm		ASTM D7647	>5000	▲ 83619	---	---
Particles >14µm		ASTM D7647	>640	▲ 8451	---	---
Particles >21µm		ASTM D7647	>160	▲ 1238	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/24/20	---	---

Customer Id: CSYOAK
Sample No.: ST46590
Lab Number: 06158447
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 Filter	---	---	?	We recommend you service the filters on this component if applicable.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Contact Required	---	---	?	Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
WINDLESS IRON BLONDE
 Component
Port Gearbox
 Fluid
GEAR OIL ISO 220 (1 GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. 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

All component wear rates are normal.

▲ Contamination

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

● Fluid Condition

Viscosity of sample indicates oil is within ISO 320 range, advise investigate. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			ST46590	---	---
Sample Date	Client Info			16 Apr 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				SEVERE	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	185	---	---
Chromium	ppm	ASTM D5185m	>15	8	---	---
Nickel	ppm	ASTM D5185m	>15	4	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	10	---	---
Lead	ppm	ASTM D5185m	>100	<1	---	---
Copper	ppm	ASTM D5185m	>200	3	---	---
Tin	ppm	ASTM D5185m	>25	<1	---	---
Vanadium	ppm	ASTM D5185m		1	---	---
Cadmium	ppm	ASTM D5185m		<1	---	---

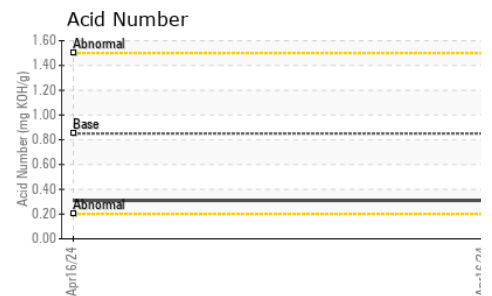
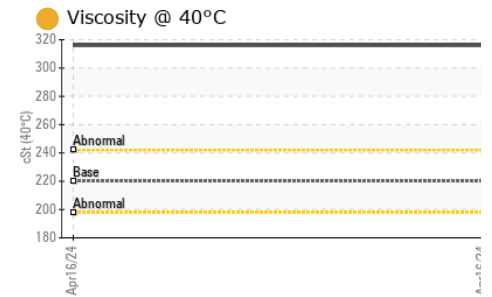
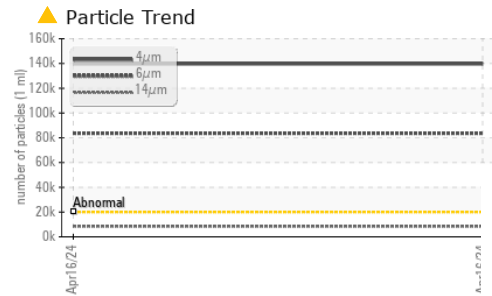
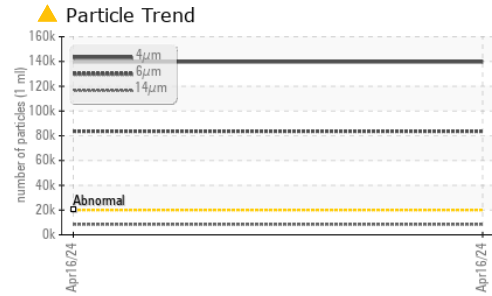
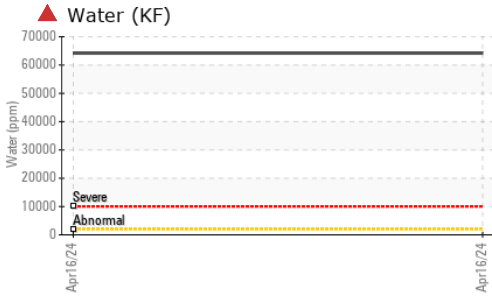
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	21	---	---
Barium	ppm	ASTM D5185m	15	2	---	---
Molybdenum	ppm	ASTM D5185m	15	<1	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	50	6	---	---
Calcium	ppm	ASTM D5185m	50	37	---	---
Phosphorus	ppm	ASTM D5185m	350	278	---	---
Zinc	ppm	ASTM D5185m	100	15	---	---
Sulfur	ppm	ASTM D5185m	12500	203	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	15	---	---
Sodium	ppm	ASTM D5185m		75	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Water	%	ASTM D6304	>0.2	▲ 6.421	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 64214	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 139710	---	---
Particles >6µm		ASTM D7647	>5000	▲ 83619	---	---
Particles >14µm		ASTM D7647	>640	▲ 8451	---	---
Particles >21µm		ASTM D7647	>160	▲ 1238	---	---
Particles >38µm		ASTM D7647	>40	24	---	---
Particles >71µm		ASTM D7647	>10	7	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/24/20	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.31	---	---

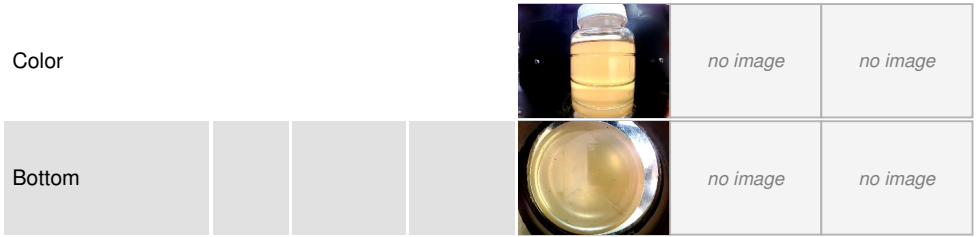
OIL ANALYSIS REPORT



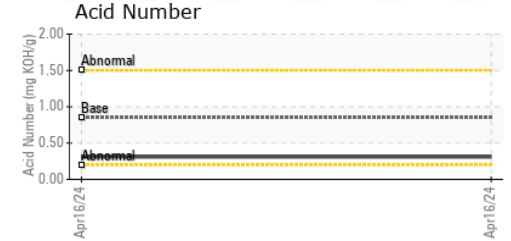
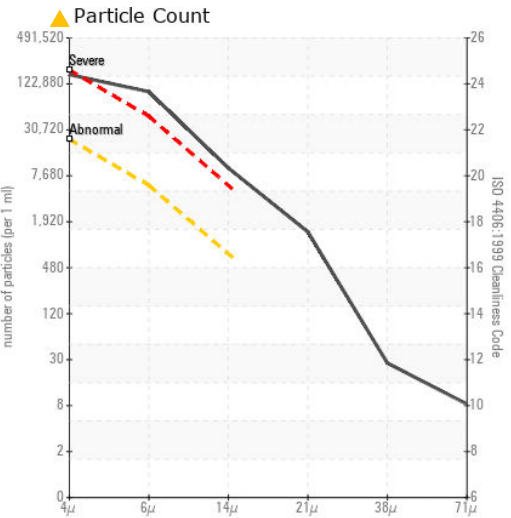
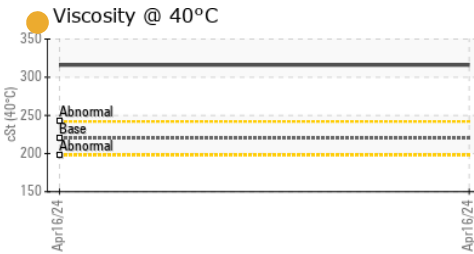
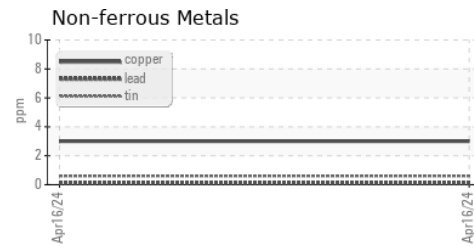
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	316	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST46590 **Received** : 23 Apr 2024
Lab Number : **06158447** **Tested** : 25 Apr 2024
Unique Number : 10993870 **Diagnosed** : 25 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

C-SYSTEMS & SERVICES
 170 NE 32ND CT
 OAKLAND PARK, FL
 US 33334
 Contact: PATRICK BROWN
 service@csshydraulics.com
 T: (954)772-1200
 F:

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)