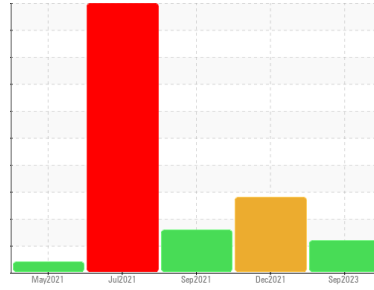


PROBLEM SUMMARY

Sample Rating Trend



VISUAL METAL



Machine Id
SEC D
Component
Hydraulic System
Fluid
REDD DRUM 68 (300 GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display


RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for possible wear. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. 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				ABNORMAL	ABNORMAL	ABNORMAL
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE

Customer Id: BASCOLOH
Sample No.: ST42851
Lab Number: 05965381
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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Filter	---	---	?	We recommend you service the filters on this component.
Contact Required	---	---	?	Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.
Alert	---	---	?	We were unable to perform a particle count due to metal particles present in this sample.

HISTORICAL DIAGNOSIS

01 Dec 2021 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component. Resample at the next service interval to monitor. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The aluminum level is abnormal. The copper level is marginal. There is a high amount of particulates present in the oil. Confirm oil type. The AN level is acceptable for this fluid.

view report



01 Sep 2021 Diag: Angela Borella

WEAR



Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The copper level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



28 Jul 2021 Diag: Jonathan Hester

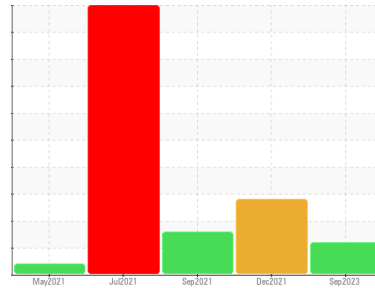
VISUAL METAL



We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The copper level is severe. Moderate concentration of visible metal present. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid.

view report





Machine Id
SEC D
 Component
Hydraulic System
 Fluid
REDD DRUM 68 (300 GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. We advise that you inspect for possible wear. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

▲ Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination 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		ST42851	ST42096	ST37653
Sample Date	Client Info		25 Sep 2023	01 Dec 2021	01 Sep 2021
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 >20	1	9	4
Chromium	ppm	ASTM D5185m >20	0	<1	0
Nickel	ppm	ASTM D5185m >20	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >20	3	▲ 38	14
Lead	ppm	ASTM D5185m >20	<1	<1	0
Copper	ppm	ASTM D5185m >20	12	▲ 25	▲ 26
Tin	ppm	ASTM D5185m >20	0	0	0
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	42	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	9	<1	0
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	172	46	37
Calcium	ppm	ASTM D5185m	193	17	16
Phosphorus	ppm	ASTM D5185m	367	322	297
Zinc	ppm	ASTM D5185m	411	333	351
Sulfur	ppm	ASTM D5185m	2218	680	640

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1	1
Sodium	ppm	ASTM D5185m	<1	1	<1
Potassium	ppm	ASTM D5185m >20	0	1	9
Water	%	ASTM D6304 >0.05	0.006	0.003	0.006
ppm Water	ppm	ASTM D6304 >500	61.5	29.4	65.0

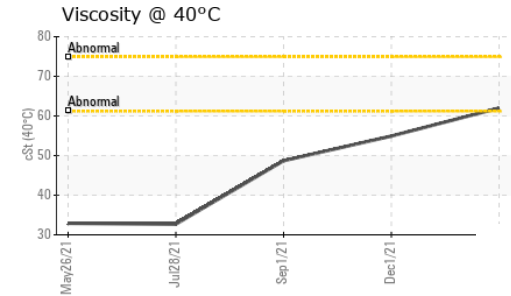
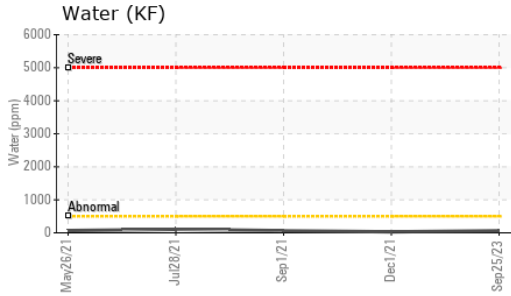
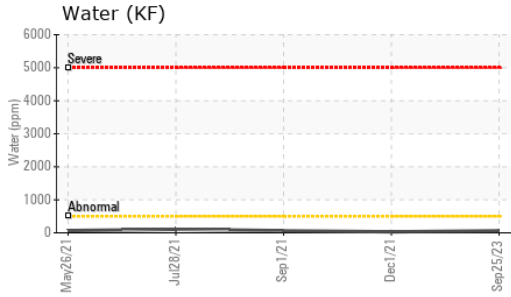
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	---	▲ 219708	▲ 162989
Particles >6µm	ASTM D7647	>640	---	▲ 117628	▲ 33742
Particles >14µm	ASTM D7647	>160	---	▲ 298	23
Particles >21µm	ASTM D7647	>40	---	18	2
Particles >38µm	ASTM D7647	>10	---	1	0
Particles >71µm	ASTM D7647	>3	---	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/14	---	▲ 25/24/15	▲ 25/22/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.41	0.374	0.311

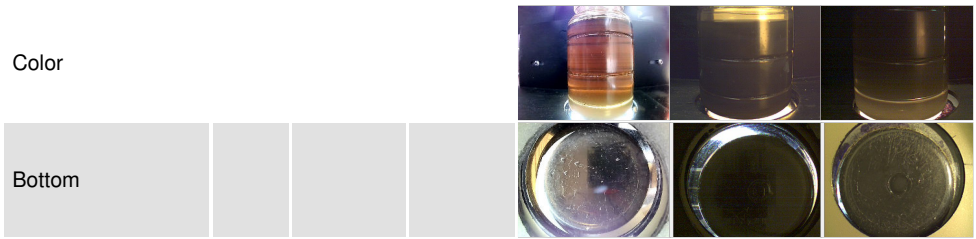
OIL ANALYSIS REPORT



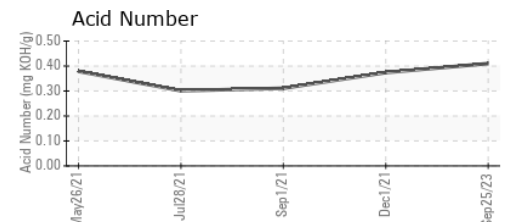
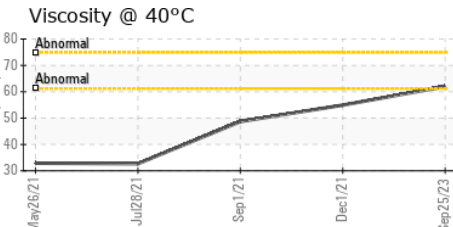
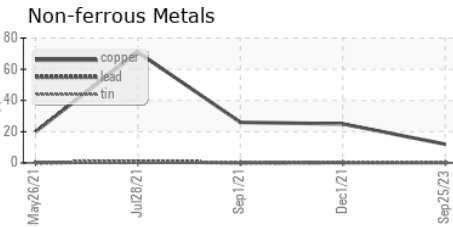
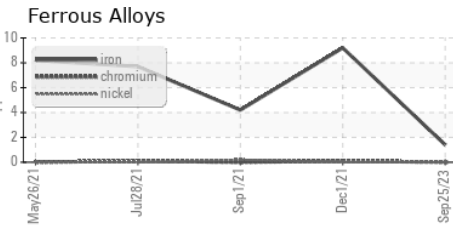
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	62.0	54.92	48.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST42851 **Received** : 29 Sep 2023
Lab Number : 05965381 **Diagnosed** : 04 Oct 2023
Unique Number : 10671932 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

BASIC GRAIN PRODUCTS INC.
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 COLDWATER, OH
 US 45828
 Contact: MIKE THOBE
 mike.thobe@basicgrain.com
 T: (419)678-2304
 F: (937)678-4647

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)