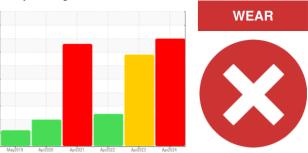


PROBLEM SUMMARY

Sample Rating Trend



Machine Id

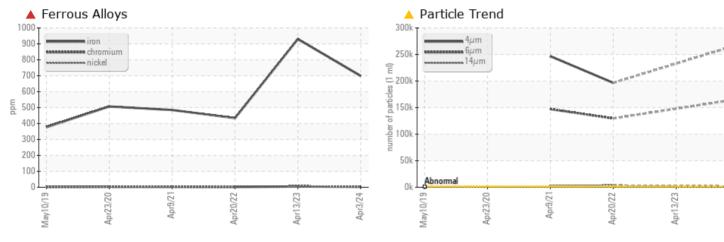
FALK WERKSPOOR 2

Gearbox

Gearbo

AMALIE 220 (10 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. 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.

DDOD! ELATIO		-00									
PROBLEMATIC TEST RESULTS											
Sample Status				SEVERE	SEVERE	ABNORMAL					
Iron	ppm	ASTM D5185m	>200	△ 699	4 930	<u></u> 434					
Particles >4µm		ASTM D7647	>1300	269201		▲ 196670					
Particles >6µm		ASTM D7647	>320	166262		<u>▲</u> 129623					
Particles >14μm		ASTM D7647	>80	1863		▲ 3776					
Particles >21µm		ASTM D7647	>20	198		<u></u> 143					
Oil Cleanliness		ISO 4406 (c)	>17/15/13	25/25/18		25/24/19					

Customer Id: HYDBELFL Sample No.: ST46862 Lab Number: 06143053 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 Filter			?	We recommend you service the filters on this component.		
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.		

HISTORICAL DIAGNOSIS

13 Apr 2023 Diag: Jonathan Hester

WEAR



We recommend that you drain the oil and perform a filter service on this component if not already done. 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 a high concentration of 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. Gear wear is indicated. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR



20 Apr 2022 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. 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. The iron level is abnormal. Gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.



ISO



09 Apr 2021 Diag: Angela Borella

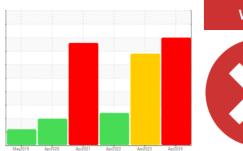
We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The iron level is abnormal. Gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FALK WERKSPOOR 2

Component **Gearbox**

AMALIE 220 (10 GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. 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.

Gear wear is indicated.

Contamination

There is a high amount of particulates present in the oil.

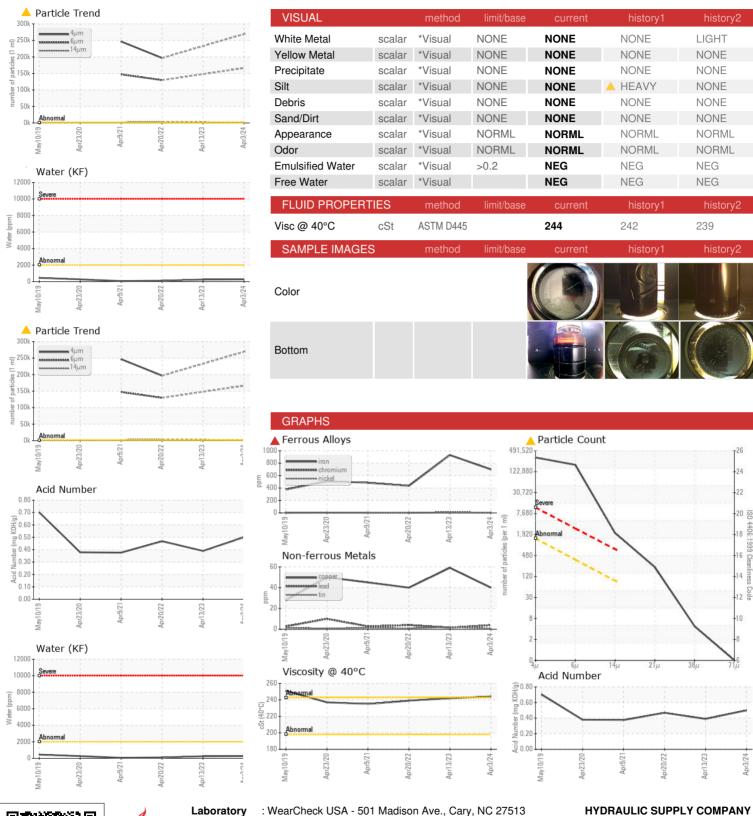
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number Client Info ST46862 ST44812 ST428 Sample Date Client Info 03 Apr 2024 13 Apr 2023 20 Apr Machine Age mths Client Info 0 0 0 Oil Age mths Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A	istory2 374 r 2022
Sample Date Client Info 03 Apr 2024 13 Apr 2023 20 Apr 2024 Machine Age mths Client Info 0 0 0 Oil Age mths Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A	
Machine Age mths Client Info 0 0 0 Oil Age mths Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A	r 2022
Oil Age mths Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A	
Oil Changed Client Info N/A N/A N/A	
Sample Status SEVERE SEVERE ABNO	
	RMAL
WEAR METALS method limit/base current history1 h	story2
Iron ppm ASTM D5185m >200 ▲ 699 ▲ 930 ▲ 434	ļ.
Chromium ppm ASTM D5185m >15 3 5 3	
Nickel ppm ASTM D5185m >15 2 3 0	
Titanium ppm ASTM D5185m 2 3 <1	
Silver ppm ASTM D5185m 0 0 <1	
Aluminum ppm ASTM D5185m >25 4 8 4	
Lead ppm ASTM D5185m >100 4 2 4	
Copper ppm ASTM D5185m >200 40 59 40	
Tin ppm ASTM D5185m >25 <1 2 1	
Antimony ppm ASTM D5185m >5	
Vanadium ppm ASTM D5185m <1 <1 <1	
Cadmium ppm ASTM D5185m 0 <1	
ADDITIVES method limit/base current history1 h	story2
Boron ppm ASTM D5185m 5 6 6	
Barium ppm ASTM D5185m 5 9 0	
Molybdenum ppm ASTM D5185m 2 4 2	
ManganeseppmASTM D5185m584	
Magnesium ppm ASTM D5185m 11 12 4	
Calcium ppm ASTM D5185m 85 76 32	
Phosphorus ppm ASTM D5185m 157 179 198)
Zinc ppm ASTM D5185m 8 15 14	
Sulfur ppm ASTM D5185m 7855 8966 948	99
CONTAMINANTS method limit/base current history1 h	story2
Silicon ppm ASTM D5185m >50 21 27 15	
Sodium ppm ASTM D5185m 11 11 5	
Potassium ppm ASTM D5185m >20 130 85 29	
Water % ASTM D6304 >0.2 0.026 0.024 0.0	10
ppm Water ppm ASTM D6304 >2000 268 245.6 103	3.2
FLUID CLEANLINESS method limit/base current history1 h	story2
Particles >4μm ASTM D7647 >1300 ▲ 269201 ▲ 196	
Particles >6μm ASTM D7647 >320 ▲ 166262 ▲ 129	
Particles >14μm ASTM D7647 >80 ▲ 1863 ▲ 377	
Particles >21μm ASTM D7647 >20 ▲ 198 ▲ 143	}
Particles >38μm ASTM D7647 >4 4 1	
Particles >71 μ m ASTM D7647 >3 0 1	
Particles >71 μ m ASTM D7647 >3 0 1	24/19



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: ST46862

Lab Number : 06143053 Unique Number: 10967861

Received **Tested** Diagnosed

: 11 Apr 2024 - Jonathan Hester Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 09 Apr 2024

: 10 Apr 2024

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)

HYDRAULIC SUPPLY COMPANY

326 SE 1ST ST BELLE GLADE, FL US 33430

Contact: ROBERT RETALEATO r.retaleato@hydraulic-supply.com;rsr@hydraulic-supply.com

T: (561)996-4431 F: (561)996-8531

Report Id: HYDBELFL [WUSCAR] 06143053 (Generated: 04/11/2024 16:44:29) Rev: 1

Contact/Location: ROBERT RETALEATO - HYDBELFL