

**WEAR**



Machine Id  
**FALK WERKSPOR 3**  
 Component  
**Gearbox**  
 Fluid  
**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.

**Wear**

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. The condition of the oil is suitable for further service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ST43252</b>	ST37527	ST42805
Sample Date	Client Info		<b>03 Apr 2024</b>	13 Apr 2023	20 Apr 2022
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	SEVERE

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>▲ 223</b>	24	7
Chromium	ppm	ASTM D5185m >15	<b>1</b>	0	0
Nickel	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m >100	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >200	<b>27</b>	3	2
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	<b>2</b>	<1	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>3</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>1</b>	1	0
Calcium	ppm	ASTM D5185m	<b>24</b>	5	3
Phosphorus	ppm	ASTM D5185m	<b>132</b>	144	138
Zinc	ppm	ASTM D5185m	<b>15</b>	11	4
Sulfur	ppm	ASTM D5185m	<b>4866</b>	4873	3355

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>3</b>	2	2
Sodium	ppm	ASTM D5185m	<b>2</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>22</b>	3	2
Water	%	ASTM D6304 >0.2	<b>0.017</b>	0.009	0.005
ppm Water	ppm	ASTM D6304 >2000	<b>172</b>	90.2	52.1

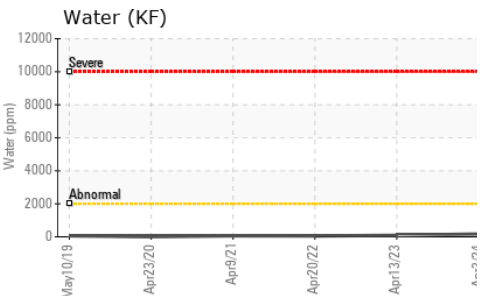
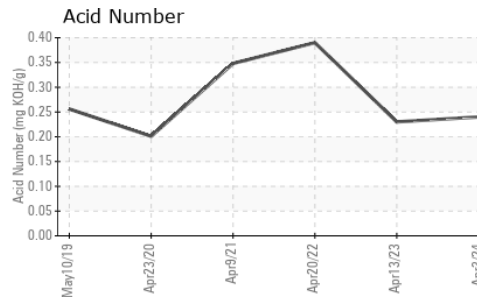
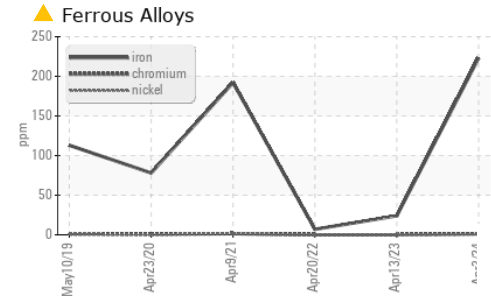
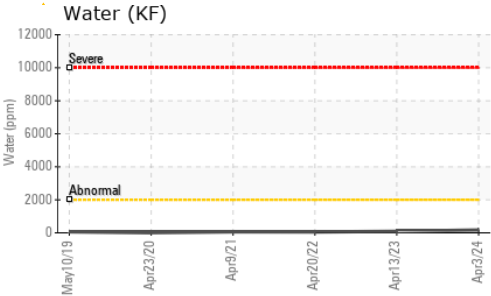
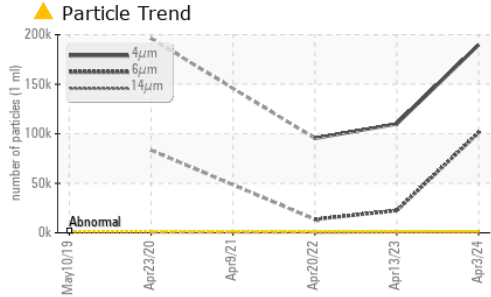
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	<b>▲ 189648</b>	▲ 109887	▲ 95366
Particles >6µm	ASTM D7647	>320	<b>▲ 101092</b>	▲ 22479	▲ 13580
Particles >14µm	ASTM D7647	>80	<b>▲ 798</b>	▲ 619	▲ 330
Particles >21µm	ASTM D7647	>20	<b>▲ 64</b>	▲ 103	▲ 67
Particles >38µm	ASTM D7647	>4	<b>1</b>	4	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	<b>▲ 25/24/17</b>	▲ 24/22/16	▲ 24/21/16

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.24</b>	0.23	0.39

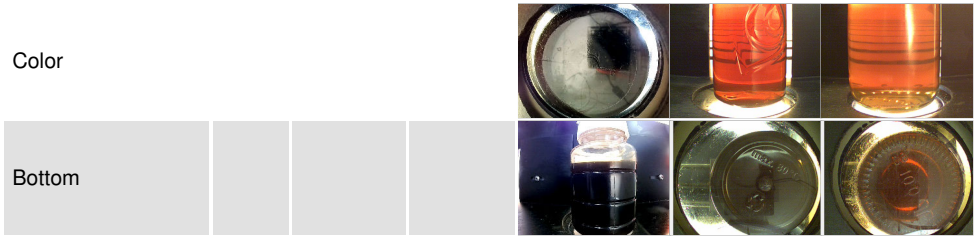
# OIL ANALYSIS REPORT



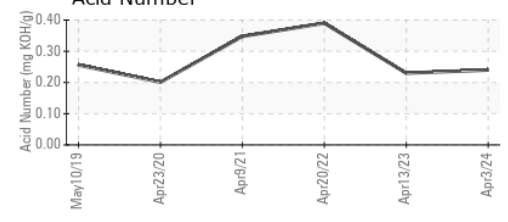
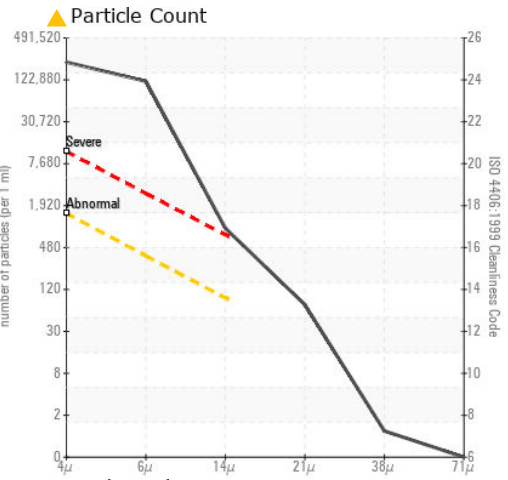
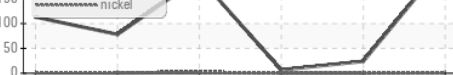
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	212	203	208

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ST43252  
**Lab Number** : 06143055  
**Unique Number** : 10967863  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )  
**Received** : 09 Apr 2024  
**Tested** : 10 Apr 2024  
**Diagnosed** : 11 Apr 2024 - Jonathan Hester

**HYDRAULIC SUPPLY COMPANY**  
 326 SE 1ST ST  
 BELLE GLADE, FL  
 US 33430

Contact: ROBERT RETALEATO  
 r.retaeato@hydraulic-supply.com; rrsr@hydraulic-supply.com  
 T: (561)996-4431  
 F: (561)996-8531