

# **PROBLEM SUMMARY**

Sample Rating Trend

ISO

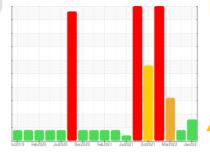
Recovery

Bornemann FHG25BP01 Decanter, Sludge Outlet Flow Pump

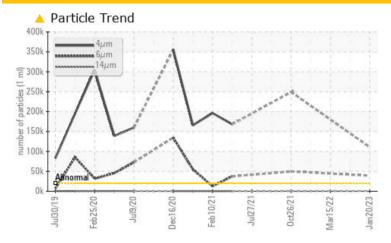
Component

Gearbox

JAX Flow-Guard Synthetic 100 (4 QTS)



# **COMPONENT CONDITION SUMMARY**



### **RECOMMENDATION**

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample at the next service interval to monitor.

PROBLEMATIC TEST R	ROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL			
Particles >4µm	ASTM D7647	>20000	<u> </u>					
Particles >6μm	ASTM D7647	>5000	<b>39200</b>					
Particles >14µm	ASTM D7647	>640	<b>735</b>					
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>4</b> 24/22/17					

Customer Id: NOVFRANC Sample No.: WC0765175 Lab Number: 05746162 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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	SKIPPED	Jun 05 2023	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Check Breathers	SKIPPED	Jun 05 2023	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Filter Fluid	SKIPPED	Jun 05 2023	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

### HISTORICAL DIAGNOSIS

#### 03 May 2022 Diag: Angela Borella

WEAR



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 15 Mar 2022 Diag: Doug Bogart

WATER



We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. Gear wear is indicated. There is a moderate concentration of water present in the oil. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid.



# 15 Feb 2022 Diag: Jonathan Hester



We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. Gear wear is indicated. Appearance is milky. Excessive free water present. There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. Moderate concentration of visible dirt/debris present in the oil. The oil is no longer serviceable due to the presence of contaminants.





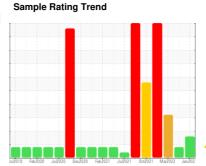
# **OIL ANALYSIS REPORT**

Recovery

# Bornemann FHG25BP01 Decanter, Sludge Outlet Flow Pump

Gearbox

JAX Flow-Guard Synthetic 100 (4 QTS)





# **DIAGNOSIS**

#### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### 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.

142019 Feb2020 342020 Dec2020 Feb2021 342021 Dec2021 Mar2022 344202.							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0765175	WC0660557	WC0656548	
Sample Date		Client Info		20 Jan 2023	03 May 2022	15 Mar 2022	
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	>200	6	▲ 502	<b>△</b> 385	
Chromium	ppm	ASTM D5185m	>15	<1	8	4	
Nickel	ppm	ASTM D5185m	>15	<1	0	0	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	0	3	7	
Lead	ppm	ASTM D5185m	>100	0	0	0	
Copper	ppm	ASTM D5185m	>200	0	6	8	
Tin	ppm	ASTM D5185m	>25	<1	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		0	0	4	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	0	
Manganese	ppm	ASTM D5185m		0	3	2	
Magnesium	ppm	ASTM D5185m		1	0	0	
Calcium	ppm	ASTM D5185m		1	4	5	
Phosphorus	ppm	ASTM D5185m		124	89	128	
Zinc	ppm	ASTM D5185m		0	17	11	
Sulfur	ppm	ASTM D5185m		1720	1442	1438	
CONTAMINANTS	1	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	5	4	6	
Sodium	ppm	ASTM D5185m		<1	0	0	
Potassium	ppm	ASTM D5185m	>20	<1	2	0	
Chlorine	ppm	ASTM D5185m					
Water	%	ASTM D6304	>0.2	0.008	0.001	<b>△</b> 0.733	
ppm Water	ppm	ASTM D6304	>2000	85.7	3.6	<b>▲</b> 7330	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4μm		ASTM D7647	>20000	<u> </u>			
Particles >6µm		ASTM D7647	>5000	<u></u> 4 39200			
Particles >14μm		ASTM D7647	>640	<b>△</b> 735			
Particles >21µm		ASTM D7647	>160	86			
Particles >38μm		ASTM D7647	>40	2			
Particles >71µm		ASTM D7647	>10	0			
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/22/17			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	0.22	0.15	



# **OIL ANALYSIS REPORT**

