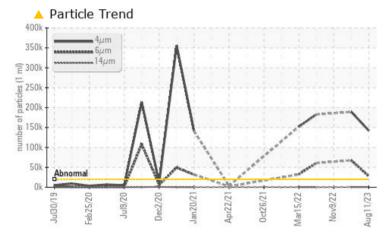


PROBLEM SUMMARY

Area **Recovery** Machine Id **Bornemann FHG25AP01 Decanter Sludge Outlet Flow Pump** Component Gearbox

Fluid JAX Flow-Guard Synthetic 100 (4 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

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PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	SEVERE				
Particles >4µm	ASTM D7647	>20000	🔺 142316	▲ 189262					
Particles >6µm	ASTM D7647	>5000	🔺 27731	67583					
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> </u>	▲ 25/23/16					

Customer Id: NOVFRANC Sample No.: WC0827149 Lab Number: 05923433 Test Package: IND 2



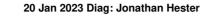
To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED AC	CTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS





We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.Gear wear is indicated. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





09 Nov 2022 Diag: Angela Borella

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. We advise that you follow the water drain-off procedure for this component, 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. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium and iron and nickel ppm levels are severe. Copper ppm levels are abnormal. Aluminum ppm levels are noted. Gear wear is indicated. Bearing and/or bushing wear is indicated (coarse dirt) ingress. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



ISO

03 May 2022 Diag: Angela Borella

If applicable, we advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Area **Recovery** Machine Id **Bornemann FHG25AP01 Decanter Sludge Outlet Flow Pump** Component

Gearbox Fluid

JAX Flow-Guard Synthetic 100 (4 QTS)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

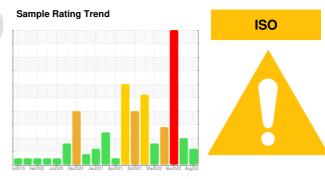
All component wear rates are normal.

Contamination

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

Fluid Condition

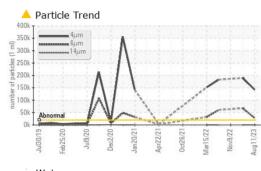
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

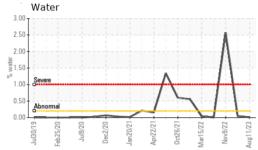


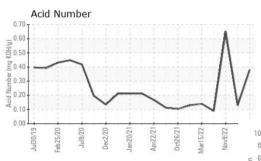
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0827149	WC0765176	WC0663723
Sample Date		Client Info		11 Aug 2023	20 Jan 2023	09 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	61	4 86	• 10000
Chromium	ppm	ASTM D5185m	>15	<1	10	7 60
Nickel	ppm	ASTM D5185m	>15	0	2	209
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	A 39
Lead	ppm	ASTM D5185m	>100	0	<1	5
Copper	ppm	ASTM D5185m	>200	1	3	1 81
Tin	ppm	ASTM D5185m	>25	0	0	3
Vanadium	ppm	ASTM D5185m		<1	0	2
Cadmium	ppm	ASTM D5185m		0	0	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	8
Manganese	ppm	ASTM D5185m		1	3	1 28
Magnesium	ppm	ASTM D5185m		7	<1	8
Calcium	ppm	ASTM D5185m		2	1	11
Phosphorus	ppm	ASTM D5185m		107	141	203
Zinc	ppm	ASTM D5185m		19	0	14
Sulfur	ppm	ASTM D5185m		1811	1882	1 07
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon					,	,
Oliloott	ppm	ASTM D5185m	>50	2	4	▲ 63
	ppm ppm	ASTM D5185m ASTM D5185m	>50	2 1		
			>50 >20		4	▲ 63
Sodium Potassium	ppm	ASTM D5185m	>20	1	4 <1	▲ 63 9
Sodium Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m	>20 >0.2	1 <1	4 <1 2	 ▲ 63 9 10
Sodium Potassium Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304	>20 >0.2	1 <1 0.008	4 <1 2 0.046	 ▲ 63 9 10 ♦ 2.57
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>20 >0.2 >2000 limit/base >20000	1 <1 0.008 80.8 current ▲ 142316	4 <1 2 0.046 463 history1 ▲ 189262	 ▲ 63 9 10 ● 2.57 ● 25700
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>20 >0.2 >2000 limit/base >20000 >5000	1 <1 0.008 80.8 current ▲ 142316 ▲ 27731	4 <1 2 0.046 463 history1 ▲ 189262 ▲ 67583	 ▲ 63 9 10 ● 2.57 ● 25700 ▶istory2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.2 >2000 limit/base >20000 >5000 >640	1 <1 0.008 80.8 Current ▲ 142316 ▲ 27731 441	4 <1 2 0.046 463 history1 ▲ 189262 ▲ 67583 363	 ▲ 63 9 10 ● 2.57 ● 25700 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>20 >0.2 >2000 limit/base >20000 >5000 >640	1 <1 0.008 80.8 current ▲ 142316 ▲ 27731	4 <1 2 0.046 463 history1 ▲ 189262 ▲ 67583	 ▲ 63 9 10 ● 2.57 ● 25700 ▶ history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.2 >2000 limit/base >20000 >5000 >640	1 <1 0.008 80.8 Current ▲ 142316 ▲ 27731 441	4 <1 2 0.046 463 history1 ▲ 189262 ▲ 67583 363	 63 9 10 2.57 25700 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40 >10	1 <1 0.008 80.8 <urrent ▲ 142316 ▲ 27731 441 67 2 1</urrent 	4 <1 2 0.046 463 history1 ▲ 189262 ▲ 67583 363 80 11 0	 ▲ 63 9 10 ● 2.57 ● 25700 ▶ history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40	1 <1 0.008 80.8 Current ▲ 142316 ▲ 27731 441 67 2	4 <1 2 0.046 463 history1 ▲ 189262 ▲ 67583 363 80 11	 63 9 10 2.57 25700 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm JESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40 >10	1 <1 0.008 80.8 <urrent ▲ 142316 ▲ 27731 441 67 2 1</urrent 	4 <1 2 0.046 463 history1 ▲ 189262 ▲ 67583 363 80 11 0	 63 9 10 2.57 25700 history2 -

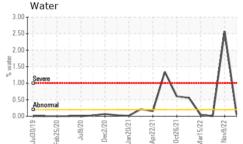


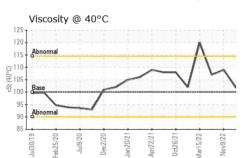
OIL ANALYSIS REPORT











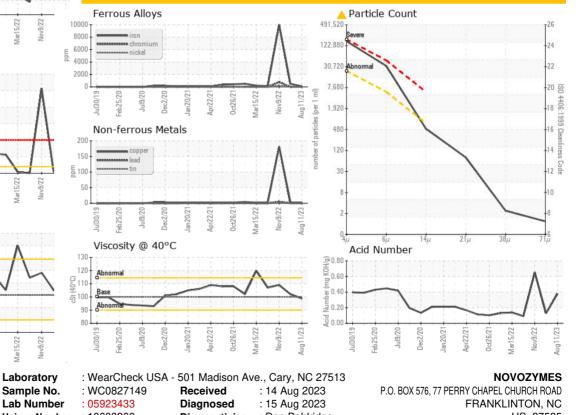
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	🔺 MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100.0	98.7	102	109
SAMPLE IMAGE	S	method	limit/base	current	history1	history2

Color



Bottom

GRAPHS



 Unique Number
 : 10603380
 Diagnostician
 : Don Baldridge

 Certificate L2367
 Test Package
 : IND 2 (Additional Tests: KF, PrtCount)

 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)

76, 77 PERRY CHAPEL CHURCH ROAD FRANKLINTON, NC US 27525 Contact: BRUCE THOMAS brct@novozymes.com

T: (919)494-3146 F: (919)494-3456