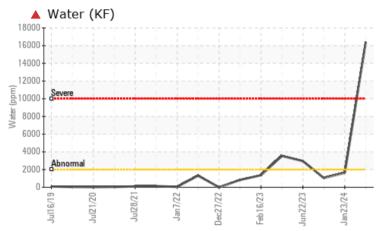


PROBLEM SUMMARY

Area Fermentation Machine Id Lightnin FHG21AB01 Dosing Tank, Agitator Gearbox

Fluid JAX FGG-AW ISO 220 (14 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. 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. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ATTENTION		
Water	%	ASTM D6304	>0.2	1.64	0.164	0.104		
ppm Water	ppm	ASTM D6304	>2000	16400	1640	1040		
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	0.2%		

Customer Id: NOVFRANC Sample No.: WC0901920 Lab Number: 06237801 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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



RECOMMENDED ACTI	ON
------------------	----

The commended in the test				
Action	Status	Date	Done By	
Water Drain-off			?	
Resample			?	
Check Water Access			?	

Description

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.

We recommend an early resample to monitor this condition.

We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS



23 Jan 2024 Diag: Jonathan Hester

No corrective action is recommended at this time. 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.





28 Jul 2023 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is no indication of any contamination in the oil. 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.



22 Jun 2023 Diag: Don Baldridge

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.All component wear rates are normal. Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water 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

Iron

Lead

Tin

Zinc

Acid Number (AN)

mg KOH/g ASTM D8045

Area **Fermentation** Lightnin FHG21AB01 Dosing Tank, Agitator

Gearbox Fluic

JAX FGG-AW ISO 220 (14 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

Wear

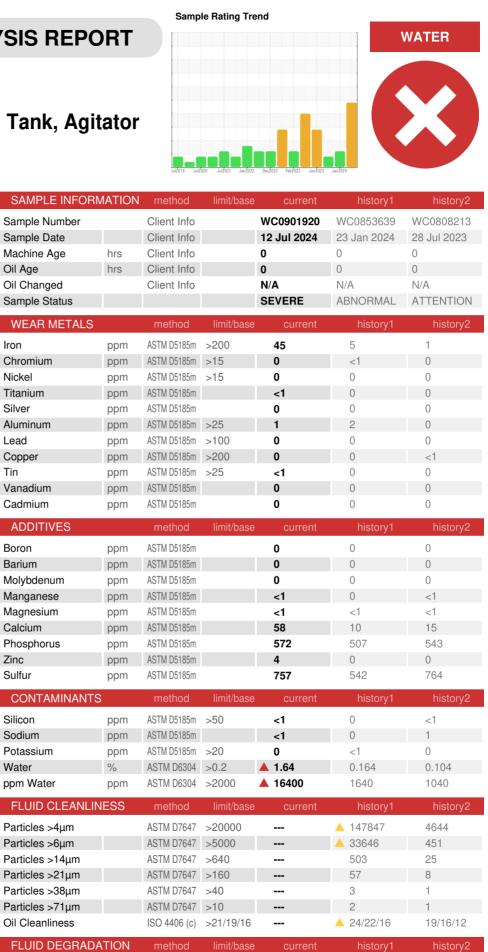
All component wear rates are normal.

Contamination

Appearance is unacceptable. Excessive free water present. There is a high concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.



0.35

Report Id: NOVFRANC [WUSCAR] 06237801 (Generated: 07/18/2024 09:07:00) Rev: 1

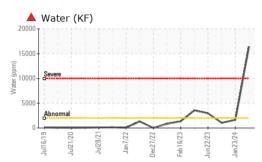
Submitted By: CHASE MCGEE Page 3 of 4

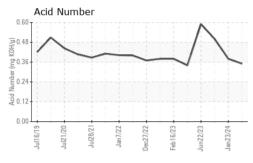
0.50

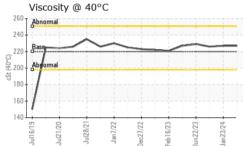
0.38



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	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	0.2%
Free Water	scalar	*Visual	(<mark> </mark> >10%	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	227	227	226
	631					
SAMPLE IMAGES		method	limit/base	current	history1	history2
-			limit/base	current	history1	history2

GRAPHS Ferrous Alloys 50 40 ud 20 30 10 0 Jan7/22 Jul16/19 CC/7/23 eh16/7 Non-ferrous Metals 10 Jan7/22 Feb 16/23 un22/23)ec27/22 an 23/24 ul21/ Viscosity @ 40°C Acid Number 300 (⁰,0.60 HOX 0.48 250 (250 (+) 200 (+) 200 Ē 0.36 녵 0.24 150 LIN 0.12 0.00 P 100 Jul21/20 -Jan7/22 Jan 23/24 ul28/21 lan7/22 un22/23 Dec27/22 Feb16/23 Dec27/22 Feb16/23 Jan 23/24 116/1 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 NOVOZYMES Sample No. P.O. BOX 576, 77 PERRY CHAPEL CHURCH ROAD : WC0901920 Received : 16 Jul 2024 Lab Number : 06237801 Tested : 18 Jul 2024 FRANKLINTON, NC : 18 Jul 2024 - Doug Bogart Unique Number : 11126635 Diagnosed US 27525 Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: BRUCE THOMAS brct@novozymes.com

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)

Report Id: NOVFRANC [WUSCAR] 06237801 (Generated: 07/18/2024 09:07:00) Rev: 1

Certificate 12367

Laboratory

Submitted By: CHASE MCGEE

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