

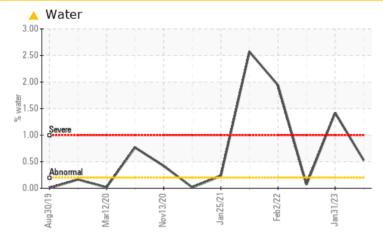
## **PROBLEM SUMMARY**

### Area Fermentation Machine Id Lightnin FHG21BB01 Dosing Tank, Agitator Component

Gearbox

### JAX MAGNA-PLATE 460 FG (14 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	SEVERE	ABNORMAL		
Water	%	ASTM D6304	>0.2	<b>A</b> 0.526	1.42	0.070		
ppm Water	ppm	ASTM D6304	>2000	<b>6</b> 5260	<b>1</b> 4200	700.3		
Debris	scalar	*Visual	NONE	🔺 MODER	🔺 LIGHT	LIGHT		
Appearance	scalar	*Visual	NORML	🔺 HAZY	🔺 MILKY	🔺 HAZY		

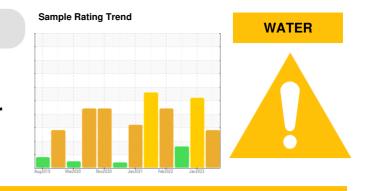
Customer Id: NOVFRANC Sample No.: WC0793880 Lab Number: 05873188 Test Package: IND 2



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 ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		
Check Water Access			?	We advise that you check for the source of water entry.		

### **HISTORICAL DIAGNOSIS**



### 31 Jan 2023 Diag: Doug Bogart

We advise that you check for the source of water entry. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. Else, we recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.All component wear rates are normal. Appearance is milky. Light concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.



view report

#### 28 Jul 2022 Diag: Doug Bogart

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 < 6 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.

#### 02 Feb 2022 Diag: Angela Borella



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. 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 an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.All component wear rates are normal. Appearance is milky. Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.





### **OIL ANALYSIS REPORT**

### **Fermentation** Lightnin FHG21BB01 Dosing Tank, Agitator Component

Gearbox Fluic

JAX MAGNA-PLATE 460 FG (14 GAL)

### DIAGNOSIS

### Recommendation

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.

### Wear

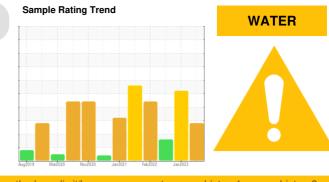
All component wear rates are normal.

### Contamination

There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0793880	WC0745866	WC0718046
Sample Date		Client Info		13 Jun 2023	31 Jan 2023	28 Jul 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	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	11	58	27
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	0	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>25	0	0	2
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	<1	0	1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron		ASTM D5185m		4	0	2
	ppm			4		0
Barium	ppm	ASTM D5185m		-	<1	
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		34	<mark>▲</mark> 5	8
Phosphorus	ppm	ASTM D5185m		867	541	612
Zinc	ppm	ASTM D5185m		13	0	0
Sulfur	ppm	ASTM D5185m		1112	▲ 594	987
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	10	<1	<1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.2	<b>0.526</b>	1.42	0.070
ppm Water	ppm	ASTM D6304	>2000	<b>5260</b>	14200	700.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000			<b>5</b> 1798
Particles >6µm		ASTM D7647	>5000			4938
Particles >14µm		ASTM D7647	>640			161
Particles >21µm		ASTM D7647	>160			34
Particles >38µm		ASTM D7647	>40			0
Particles >71µm		ASTM D7647				0
Oil Cleanliness		ISO 4406 (c)	>21/19/16			▲ 23/19/15
		( )				
FLUID DEGRADA		method	limit/base	current	history1	history2

mg KOH/g ASTM D8045 Acid Number (AN)

0.62

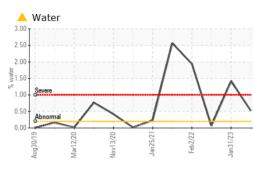
0.57

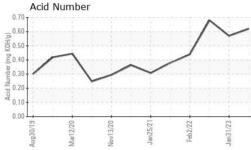
Submitted By: CHASE MCGEE

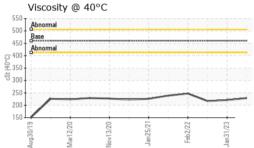
0.68



# **OIL ANALYSIS REPORT**



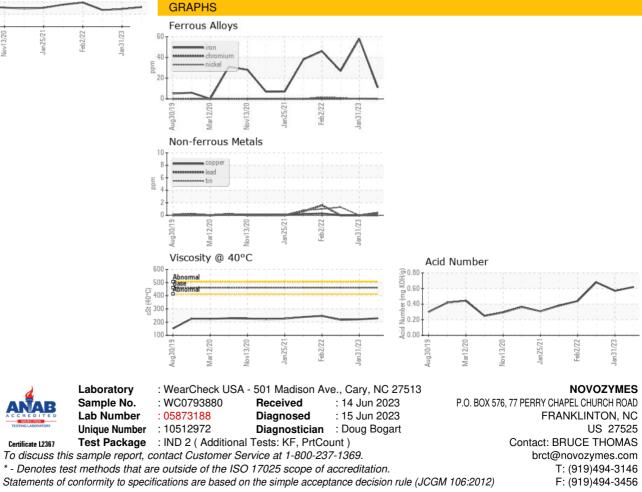




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	🔺 LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🔺 HAZY	🔺 MILKY	🔺 HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	229	221	217
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom





Submitted By: CHASE MCGEE

Page 4 of 4