

PROBLEM SUMMARY

Sample Rating Trend

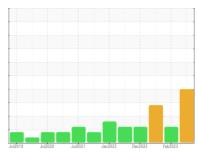
WATER

Fermentation

Lightnin FHG21AB01 Dosing Tank, Agitator

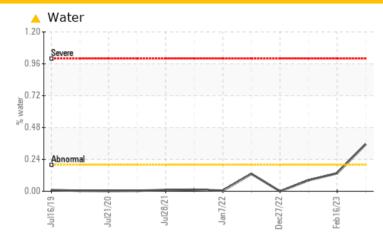
Gearbox

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. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Water	%	ASTM D6304	>0.2	△ 0.354	0.136	0.083		
ppm Water	ppm	ASTM D6304	>2000	3540	1360	830		
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML		
Free Water	scalar	*Visual		1.0	NEG	1.0		

Customer Id: NOVFRANC **Sample No.:** WC0793866 Lab Number: 05853158 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

RECOMMENDED A	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Water Drain-off	MISSED	Jun 30 2023	?	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.			
Check Water Access	MISSED	Jun 30 2023	?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS

16 Feb 2023 Diag: Doug Bogart

ISO



We recommend you service the filters on this component if applicable. 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.



31 Jan 2023 Diag: Doug Bogart

WATER



We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

27 Dec 2022 Diag: Doug Bogart

ISO



We recommend you service the filters on this component if applicable. 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.





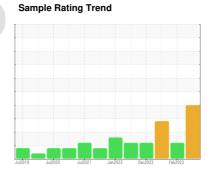
OIL ANALYSIS REPORT

Fermentation

Lightnin FHG21AB01 Dosing Tank, Agitator

Gearbox

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. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. Free water present. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0793866	WC0697841	WC0745865
Sample Date		Client Info		17 May 2023	16 Feb 2023	31 Jan 2023
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	15	1	8
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	0	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		2	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		78	2	5
Phosphorus	ppm	ASTM D5185m		506	456	420
Zinc	ppm	ASTM D5185m		20	0	9
Sulfur	ppm	ASTM D5185m		1188	1176	973
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>50	2	0	<1
Sodium	ppm	ASTM D5185m	>30	0	0	0
Potassium	ppm	ASTM D5185m	>20	-	0	0
Water	ppm %	ASTM D5165III	>0.2	<1 ^ 0.354	0.136	0.083
ppm Water	ppm	ASTM D6304	>0.2	▲ 3540	1360	830
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1427	56976	<u>^</u> 96574
Particles >6μm		ASTM D7647	>5000	777	▲ 7638	▲ 11660
Particles >14µm		ASTM D7647	>640	132	155	57
Particles >21µm		ASTM D7647	>160	45	27	8
Particles >38µm		ASTM D7647	>40	7	1	0
Particles >71µm		ASTM D7647	>40	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/17/14	△ 23/20/14	<u>4</u> 24/21/13
	TION					
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.34

Acid Number (AN)

mg KOH/g ASTM D8045

0.38

0.38



OIL ANALYSIS REPORT

